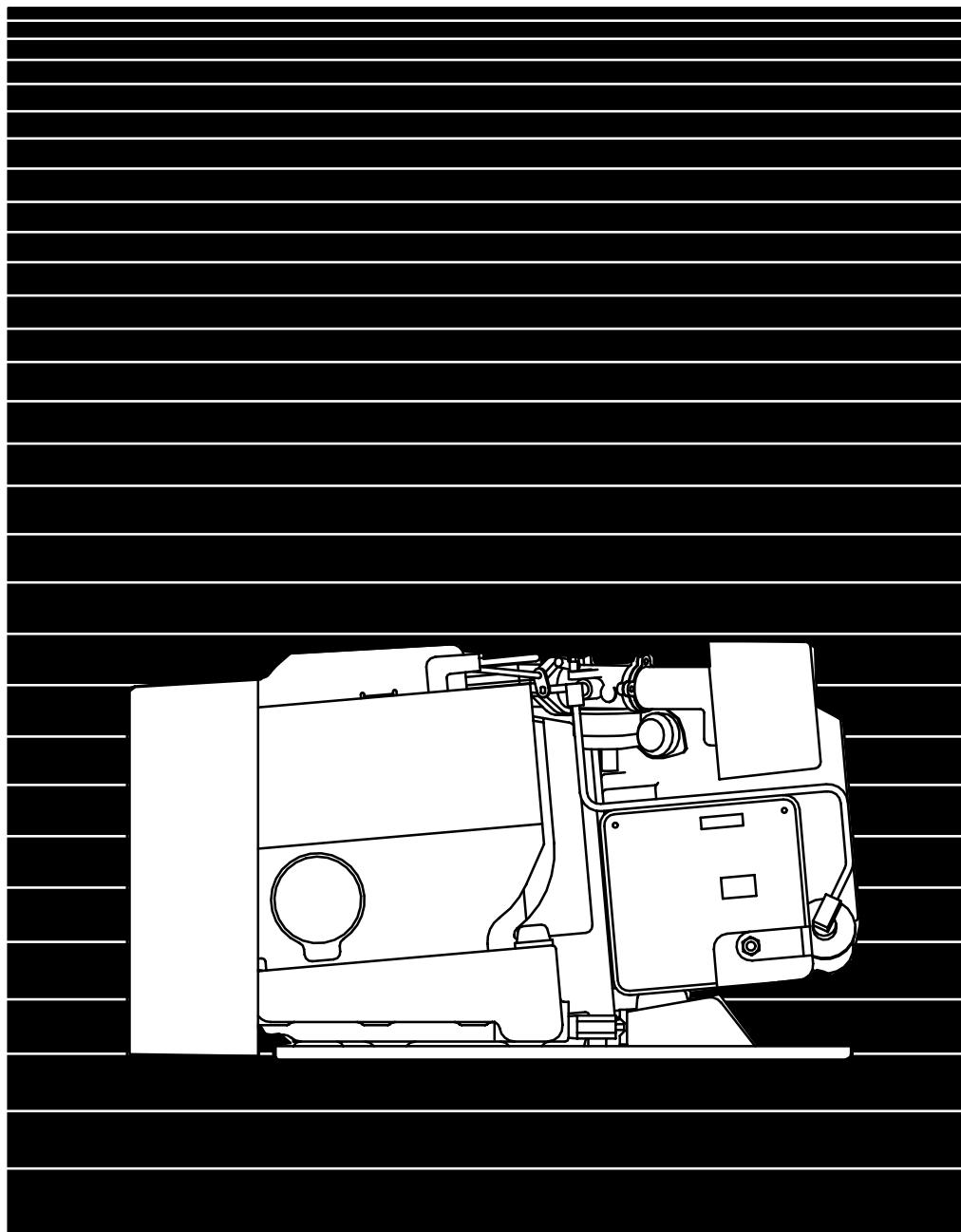


**Onan**

**GenSet**

**Parts Manual**

**BGD, BGDL**



Printed in U.S.A.

965-0228

7-98 (Spec A-M)

Replaces 11-94 (Spec A-J)



Redistribution or publication of this document  
by any means, is strictly prohibited.

## MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO. \_\_\_\_\_

SERIAL NO. \_\_\_\_\_

DIGITAL CONTROL SOFTWARE VERSION  
AND DATE (IF APPLICABLE) \_\_\_\_\_

## SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.

### ▲ DANGER

*This symbol warns of immediate hazards which will result in severe personal injury or death.*

### ▲WARNING

*This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.*

### ▲CAUTION

*This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.*

## PRODUCT SAFETY PRECAUTIONS

### ▲WARNING

***Service and repair of Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.***

### ▲WARNING

***Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.***

### ▲WARNING

***Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!***

### ▲WARNING

***Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!***

SPECIAL PARTS LIST FOR MODEL 3.5 PGO-FN      SPEC. 1A  
FOR STANDARD PARTS REFER TO CATALOG 955-0228      KEY NO. \_\_\_\_\_  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 811-1182

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

Gasoline Carburetor



Power Generation

1/26/89

REVISED

PAGE 1 OF 1

Redistribution or publication of this document  
by any means, is strictly prohibited.

SPECIAL PARTS LIST FOR MODEL 4.0 BGD-FN. SPEC 1A  
FOR STANDARD PARTS REFER TO CATALOG 965-0226 KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 511-1182

OPTIONAL PARTS LIST FOR MODEL 4.5 B60-PB      SPEC 1A  
FOR STANDARD PARTS REFER TO CATALOG 965-0328 KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 511-1182

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

Gasoline Carburetor:



Power  
Generation

8/26/88

REVISED

Redistribution or publication of this document  
PAGE 1 OF 1  
means, is strictly prohibited.

SPECIAL PARTS LIST FOR MODEL 4-5 BGD-FD      SPEC 1A  
FOR STANDARD PARTS REFER TO CATALOG 365-0228      KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1184

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

**Gasoline Carburetor**



**Cummins  
Power  
Generation**

8/28/00

DEUTZ

SPECIAL PARTS LIST FOR MODEL 415 BGD-FN      SPEC 1A  
FOR STANDARD PARTS REFER TO CATALOG 965-0220      KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED  
WIRING DIAGRAM NO. 811-1162

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

Gasoline Carburetor



**Cummins**  
**Power**  
**Generation**

1-200-000

DEUTZ

Redistribution or publication of this document  
any means, is **strictly** prohibited.

OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED  
WIRING DIAGRAM NO. 511-1193

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

19. *Leucosia* *leucostoma* (Fabricius) *leucostoma* (Fabricius)

The Cummins logo, featuring the word "Cummins" in a stylized, italicized font inside a dark oval.

## Power COATED

1248 / 89

**REVISED**

**PAGE** **OF** **1** Redistribution or publication of this document by any means, is strictly prohibited.

1. PARTS LIST FOR MODEL 4.5800-FD  
2. STANDARD PARTS REFER TO CATALOG PSS-0229 KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1192

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Gasoil Carburetor					
Above Floor Mounting					



Power  
Generation

DATED

12/5/89

REVISED

PAGE 1 OF 1  
Redistribution or publication of this document  
by any means, is strictly prohibited.

OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED  
PIPING DIAGRAM NO. 511-1198

PART NO. QTY. DESCRIPTION PART NO. QTY. DESCRIPTION

19. *Leucosia* (Leucosia) *leucostoma* (Fabricius) (Fig. 19)

卷之三十一



SPEC 1A PART NUMBER: 40000-FN  
STANDARD: 40000-FN CATALOG 984-0328 KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED  
WIRING DIAGRAM NO. 611-1292

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

Base Frame Carburetor



**Cummins**  
**Power Generation**

Redistribution or publication of this document  
by any means, is strictly prohibited.

MODEL 4-5800-SD CATALOG 285-0236 KEY NO. 11  
OPTIONAL MOVES IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED  
WIRING DIAGRAM NO. 811-1291

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

SP114 PARTS LIST FOR MODEL 4-5800-F6 SPEC 1C  
NO. 1 STANDARD PARTS REFERRED TO CATALOG 965-9228 KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1202

PART NO. QTY DESCRIPTION PART NO. QTY DESCRIPTION



**Power  
Generation**

Redistribution or publication of this document  
by any means, is strictly prohibited.

SPECIAL PARTS LIST FOR MODEL 3.5 900-FB      SPEC 1932A  
SOG STANARDS PARTS REFER TO CATALOG 965-0228      KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED  
WIRING DIAGRAM NO. 511-1182

PART NO. QTY. DESCRIPTION PART NO. QTY. DESCRIPTION

Wacker Chemie AG

SPECIAL PARTS LIST FOR MODEL 4.0 BGDL-FB      SPEC 1932A  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO. -  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1182

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

PF Liquid Carburetor



Power  
Generation

DATED

8/26/88

REVISED

PAGE 1 of 1  
Distribution or publication of this document  
by any means, is strictly prohibited.

SPECIAL PARTS LIST FOR MODEL 3.5 BGDL-FN      SPEC 1932A  
FOR STANDARD PARTS REFER TO CATALOG 955-0228      KEY NO. -  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1182

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LPG Liquid Carburetion					



Power  
Generation

8/26/88

REVISED

Redistribution or publication of this document  
by any means, is strictly prohibited.

PAGE 1 OF 1

SPECIAL PARTS LIST FOR MODEL 4.08GD-FB      SPEC 1932B  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1193

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LP Liquid Carburetion					
Above Floor Mounting					



**Cummins**  
**Power  
Generation**

~~SPECIAL PARTS LIST FOR MODEL 3.5BGD-FN~~

~~SPEC 19328~~

~~FOR STANDARD PARTS REFER TO CATALOG 965-0228 KEY NO.~~

~~OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.~~

~~WIRING DIAGRAM NO. 611-1193~~

<b>PART NO.</b>	<b>QTY.</b>	<b>DESCRIPTION</b>	<b>PART NO.</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
-----------------	-------------	--------------------	-----------------	-------------	--------------------

LP Liquid Carburetion

Above Floor Mounting

SPECIAL PARTS LIST FOR MODEL 3.5BGD-FN      SPEC 1932C  
FOR STANDARD PARTS REFER TO CATALOG 965-0228, KEY NO. \_\_\_\_\_  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1202

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LP Liquid Carburetion					



SPECIAL PARTS LIST FOR MODEL 4.08GD-FB      SPEC 1932C  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO.         
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1202

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

LP, Liquid Carburetion



**Cummins**  
**Power**  
**Generation**

SERV-TECH

Redistribution or publication of this document  
in any means, is prohibited.

SPECIAL PARTS LIST FOR MODEL 3.5 BGD-FB      SPEC 7512A  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO. \_\_\_\_\_  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1182

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LPG Vapor Carburetion					



SPECIAL PARTS LIST FOR MODEL 4.0 BGDL-FB      SPEC 7512A  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO. +  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1182

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LPG Vapor Carburetion					



Power  
Generation

DATED

8/26/88

REVISED

PAGE

1 OF 1  
Redistribution or publication of this document  
by any means, is strictly prohibited.

SPECIAL PARTS LIST FOR MODEL 3.5 BGDL-FN      SPEC 7512A  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO. -  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1182

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LPG Vapor Carburetion					



SPECIAL PARTS LIST FOR MODEL 4.0BGD-FB      SPEC 7512B  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO. \_\_\_\_\_  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1193

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LP Vapor Carburetion					
Above Floor Mounting					



POWER  
Generation

DATED

12/5/89

REVISED

PAGE 1 OF 1  
Distribution or publication of this document  
by any means, is strictly prohibited.

SPECIAL PARTS LIST FOR MODEL 3.5BGD-FN      SPEC 7512B  
FOR STANDARD PARTS REFER TO CATALOG 965-0228   KEY NO. 1  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1193

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LP Vapor Carburetion					
Above Floor Mounting					



SPECIAL PARTS LIST FOR MODEL 3.5BGD-FN SPEC 7512C  
FOR STANDARD PARTS REFER TO CATALOG 965-0228 KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1202

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LP	Liquid Carburetion				

SPECIAL PARTS LIST FOR MODEL 4.0BGD-FB      SPEC 7512C  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO.:  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1202

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LP-Liquid Carburetion					



SPECIAL PARTS LIST FOR MODEL 4.5 BGD-FB SPEC 30502A  
FOR STANDARD PARTS REFER TO CATALOG 965-0228 KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1182

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

Gasoline Carburetion  
Extended Shaft Generator



Power  
GDATEDation

8/26/88

REVISED

SPECIAL PARTS LIST FOR MODEL 4.5 BGD-FD SPEC 30502A  
FOR STANDARD PARTS REFER TO CATALOG 965-0228 KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1184

SPECIAL PARTS LIST FOR MODEL 4.5BGD-FB SPEC 30502B  
FOR STANDARD PARTS REFER TO "CATALOG 965-0228" KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1193

SPECIAL PARTS LIST FOR MODEL 4.0 BGDL-FB      SPEC 30503A  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO. 1  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED  
WIRING DIAGRAM NO. 611-1182

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LPG Liquid Carburetion Extended Shaft Generator					

SPECIAL PARTS LIST FOR MODEL 4.0BGD-FT      SPEC 30502C  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1201

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
<b>Gasoline Carburetion</b>					
<b>Extended Shaft Generator</b>					



Power  
Generation

5/29/90

REVISED

Redistribution or publication of this document  
by any means is strictly prohibited.

PAGE 1 OF 1

SPECIAL PARTS LIST FOR MODEL 4.5BGD-FB      SPEC 30502C  
FOR STANDARD PARTS REFER TO CATALOG 965-0228 KEY NO. 1  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1202

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Gasoline Carburetor					
Extended Shaft Generator					

SPECIAL PARTS LIST FOR MODEL 4.5BGD-FD      SPEC 30502C  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1201

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Gasoline Carburetion					
Extended Shaft Generator					



SPECIAL PARTS LIST FOR MODEL 4.0BGD-FB      SPEC 30503B  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO. \_\_\_\_\_  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1193

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LP Vapor Carburetion					
Extended Shaft Generator					
Above Floor Mounting					



DATED  
Generation

12/5/89

REVISED

PAGE 1 OF 1  
Distribution or publication of this document  
by any means, is strictly prohibited.

SPECIAL PARTS LIST FOR MODEL 4.0BGD-FB      SPEC 30503C  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO.     
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1202

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LP	Liquid Carburetion				
Extended	Shaft Generator				



Power  
Generation

DATED

5/29/90

REVISED

PAGE 1 of 1 of this document  
by any means, is strictly prohibited.

SPECIAL PARTS LIST FOR MODEL 3.5 BGD-FB      SPEC 30504A  
FOR STANDARD PARTS REFER TO CATALOG 965-0228      KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1182

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LPG Vapor Carburetion Extended Shaft Generator					



SPECIAL PARTS LIST FOR MODEL 4.0 BGDL-FB      SPEC 30504A  
FOR STANDARD PARTS REFER TO CATALOG 965-0228 KEY NO.  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1182

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

LPG Vapor Carburetion  
Extended Shaft Generator

SPECIAL PARTS LIST FOR MODEL 4.0BGD-FB

SPEC 30504B

FOR STANDARD PARTS REFER TO CATALOG 965-0228 KEY NO. 1  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.

WIRING DIAGRAM NO. 611-1193

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

LP Vapor Carburetion

Extended Shaft Generator

Above Floor Mounting

SPECIAL PARTS LIST FOR MODEL 4.0BGD-FB      SPEC 30504C  
FOR STANDARD PARTS REFER TO CATALOG 965-0228 KEY NO. 1  
OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.  
WIRING DIAGRAM NO. 611-1202

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
LP Liquid Carburetion					
Extended Shaft					



Power  
Generation

Redistribution or publication of this document  
by any means, is strictly prohibited.

## Introduction

This catalog applies to the Commercial BGD above floor mounted Generator Sets as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or the page heading, parts are interchangeable between models. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and left sides are determined by facing the engine end (front) of the set.

## Generator Set Data Table

<b>Model Number</b>	<b>Wiring Diagram</b>	<b>Carburetion</b>	<b>Voltage</b>	<b>Hertz</b>	<b>Phase</b>
3.5BGD±FB/1932A	611±1182	LP Vapor	120/240	60	1
3.5BGD±FB/7512A	611±1182	LP Vapor	120/240	60	1
3.5BGD±FB/30503A	611±1182	LP Vapor	120/240	60	1
3.5BGD±FN/1A	611±1182	Gasoline	120/240	50	1
3.5BGD±FN/1932A	611±1182	LP Liquid	120/240	50	1
3.5BGD±FN/1932B	611±1193	LP Liquid	120/240	50	1
3.5BGD±FN/1932C	611±1202	LP Liquid	120/240	50	1
3.5BGD±FN/1932F	611±1210	LP Liquid	120/240	50	1
3.5BGD±FN/1932H	611±1210	LP Liquid	120/240	50	1
3.5BGD±FN/7512A	611±1182	LP Vapor	120/240	50	1
3.5BGD±FN/7512B	611±1193	LP Vapor	120/240	50	1
3.5BGD±FN/7512C	611±1202	LP Vapor	120/240	50	1
3.5BGD±FN/7512F	611±1210	LP Vapor	120/240	50	1
3.5BGD±FN/7512H	611±1210	LP Vapor	120/240	50	1
3.5BGD±FN/30504A	611±1182	LP Vapor Extended Shaft	120/240	60	1
4.0BGD±FA/30502C	611±1202	Gasoline Extended Shaft	120	60	1
4.0BGD±FA/30502F	611±1215	Gasoline/Extended Shaft	120	60	1
4.0BGD±FA/30502H	611±1215	Gasoline/Extended Shaft	120	60	1
4.0BGD±FA/30502J	611±1234	Gasoline/Extended Shaft	120/240	50	1
4.0BGD±FB/1932A	611±1182	LP Liquid	120/240	60	1
4.0BGD±FB/1932B	611±1193	LP Liquid	120/240	60	1
4.0BGD±FB/1932C	611±1202	LP Liquid	120/240	60	1
4.0BGD±FB/1932F	611±1210	LP Liquid	120/240	60	1
4.0BGD±FB/1932H	611±1210	LP Liquid	120/240	60	1
4.0BGD±FB/7512A	611±1182	LP Vapor	120/240	60	1
4.0BGD±FB/7512B	611±1193	LP Vapor	120/240	60	1
4.0BGD±FB/7512C	611±1202	LP Vapor	120/240	60	1
4.0BGD±FB/7512F	611±1210	LP Vapor	120/240	60	1
4.0BGD±FB/7512H	611±1210	LP Vapor	120/240	60	1
4.0BGD±FB/7512J	611±1227	LP Vapor	120/240	60	1
4.0BGD±FB/7512K	611±1227	LP Vapor	120/240	60	1
4.0BGD±FB/30503A	611±1182	LP Liquid/Extended Shaft	120/240	60	1
4.0BGD±FB/30503B	611±1193	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD±FB/30503C	611±1202	LP Liquid/Extended Shaft	120/240	60	1
4.0BGD±FB/30503F	611±1210	LP Liquid/Extended Shaft	120/240	60	1
4.0BGD±FB/30503H	611±1210	LP Liquid/Extended Shaft	120/240	60	1
4.0BGD±FB/30504A	611±1182	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD±FB/30504B	611±1193	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD±FB/30504C	611±1202	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD±FB/30504F	611±1210	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD±FB/30504H	611±1210	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD±FD/7512K	611±1227	LP Vapor	120/240	60	3
4.0BGD±FD/7512L	611±1227	LP Vapor	120/240	60	3

## Generator Set Data Table

<b>Model Number</b>	<b>Wiring Diagram</b>	<b>Carburetion</b>	<b>Voltage</b>	<b>Hertz</b>	<b>Phase</b>
4.0BGD±FN/1B	611±1193	Gasoline	120/240	50	1
4.0BGD±FN/1C	611±1202	Gasoline	120/240	50	1
4.0BGD±FN/1F	611±1215	Gasoline	120/240	50	1
4.0BGD±FN/1H	611±1215	Gasoline	120/240	50	1
4.0BGD±FN/1J	611±1234	Gasoline	120/240	50	1
4.0BGD±FT/1H	611±1224	Gasoline	220/380	50	3
4.0BGD±FT/1M	611±1259	Gasoline	220/380	50	3
4.0BGD±FT/30502F	611±1216	Gasoline	220/380	50	3
4.0BGD±FT/30502H	611±1224	Gasoline	220±380	50	3
4.5BGD±FB/1A	611±1182	Gasoline	120/240	60	1
4.5BGD±FB/1B	611±1193	Gasoline	120/240	60	1
4.5BGD±FB/1C	611±1202	Gasoline	120/240	60	1
4.5BGD±FB/1F	611±1215	Gasoline	120/240	60	1
4.5BGD±FB/1H	611±1215	Gasoline	120/240	60	1
4.5BGD±FB/1J	611±1227	Gasoline	120/240	60	1
4.5BGD±FB/1932L	611±1227	LP Liquid	120/240	60	1
4.5BGD±FB/30502A	611±1182	Gasoline/Extended Shaft	120/240	60	1
4.5BGD±FB/30502B	611±1193	Gasoline/Extended Shaft	120/240	60	1
4.5BGD±FB/30502C	611±1202	Gasoline/Extended Shaft	120/240	60	1
4.5BGD±FB/30502F	611±1215	Gasoline/Extended Shaft	120/240	60	1
4.5BGD±FB/30502H	611±1215	Gasoline/Extended Shaft	120/240	60	1
4.5BGD±FB/30502J	611±1227	Gasoline	120/240	60	1
4.5BGD±FB/51912C	611±1211	Gasoline/Mod Chrg'g Syst	120/240	60	1
4.5BGD±FD/1A	611±1184	Gasoline	120/240	60	3
4.5BGD±FD/1B	611±1192	Gasoline	120/240	60	3
4.5BGD±FD/1C	611±1201	Gasoline	120/240	60	3
4.5BGD±FD/1F	611±1216	Gasoline	120/240	60	3
4.5BGD±FD/1G	611±1224	Gasoline	120/240	60	3
4.5BGD±FD/1H	611±1224	Gasoline	120/240	60	3
4.5BGD±FD/1J	611±1232	Gasoline	120/240	60	3
4.5BGD±FD/30502A	611±1184	Gasoline/Extended Shaft	120/240	60	3
4.5BGD±FD/30502B	611±1192	Gasoline/Extended Shaft	120/240	60	3
4.5BGD±FD/30502C	611±1201	Gasoline/Extended Shaft	120/240	60	3
4.5BGD±FD/30502F	611±1216	Gasoline/Extended Shaft	120/240	60	3
4.5BGD±FD/30502G	611±1224	Gasoline/Extended Shaft	120/240	60	3
4.5BGD±FD/30502H	611±1224	Gasoline/Extended Shaft	120/240	60	3
4.5BGD±FD/30502J	611±1232	Gasoline/Extended Shaft	120/240	60	3
4.5BGD±FD/67403H	611±1231	Gasoline	120/240	60	3
4.5BGD±FD/67404H	611±1231	Gasoline/Extended Shaft	120/240	60	3

\* ± The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

## Index

Accessory Kits, **72, 73**  
Actuator, Governor, **16**  
Adapter, Air Cleaner (Gasoline), **19**  
Adapter, Air Cleaner (LP Liquid), **25**  
Adapter, Air Cleaner (LP Vapor), **23**  
Adapter, Exhaust, **45**  
Adapter, Generator, **55**  
Adapter, Harness, **69**  
Adapter, Oil Fill Tube Assembly, **39**  
Adapter, Oil Filter, **42**  
Adapter, Preheat Hose, **21**  
Adapter, Reducer, **25**  
Arm, Governor, **14**  
Arrester, spark, **45**  
Assembly, Voltatge Regulator, **33**  
Axe, Dolly, **53**  
  
Backplate, Scroll, **49**  
Baffle, Air, **53**  
Baffle, Breather Valve, **11**  
Ball, Governor, **12**  
Ball, Governor Bearing, **14**  
Base, Breaker Box (Spec A), **30**  
Base, Oil, **41**  
Bearing, Camshaft, **9**  
Bearing, Crankshaft, **9**  
Bearing, Governor Needle, **14**  
Bearing, Rear Crankshaft, **9**  
Bi±Metal, Choke, **19**  
Block, Control Terminal, **61**  
Block, Cylinder, **9, 11**  
Block, Generator Brush, **57**  
Block, Generator Terminal, **57**  
Board, PC (Begin Spec J), **63**  
Board, PC (Spec A±H), **59**  
Bowl, LP Fuel, **28**  
Box Assy, Breaker, **29**  
Box Assy, Control (Begin Spec J), **63**  
Box Components, Breaker (Spec A), **30**  
Box, Carrying Frame Receptacle, **53**  
Brace, Below Floor Housing Rear, **51**  
Brace, Frame, **53**  
Bracket, Exhaust, **45**  
Bracket, Support, **45**  
Bracket, Battery Regulator (Spec A±H), **32**  
Bracket, Below Floor Housing, **51**  
Bracket, Below Floor Housing Fuel Pump, **51**  
Bracket, Below Floor Housing Regulator Mounting, **51**  
Bracket, Choke Housing Mounting, **19**  
Bracket, Diaphragm Mounting, **19**  
Bracket, Exhaust, **45**  
Bracket, Fuel Line, **21, 25**  
Bracket, Fuel Pump, **19**  
Bracket, Fuse Holder (Spec F), **63**  
Bracket, Fuse Holder (Spec F±H), **59**  
Bracket, Gas Regulator, **23**  
Bracket, Generator Support, **53**  
Bracket, Governor, **15**  
Bracket, Governor Adjust Cable, **15**  
Bracket, Ignition Coil, **31**  
Bracket, Ignition Control, **31**  
Bracket, Ignition Relay, **23**  
Bracket, Lifting, **49**  
Bracket, LPG Filter Mounting, **25**  
Bracket, Potentiometer, **63**  
Bracket, Starter Relay, **63**  
Bracket, Transformer, **59, 63**  
  
Bracket, Voltage Regulator Mounting (Stator Mount), **33**  
Breaker, Circuit (Battery Charger), **32**  
Breaker, Circuit (Control), **59**  
Breaker, Circuit (Receptacle Panel), **53**  
Brush, Generator, **57**  
  
Cable, Battery, **53**  
Cable, Governor Adjust, **15**  
Cable, Spark Plug (Begin Spec B), **31**  
Cable, Spark Plug (Spec A), **29**  
Camshaft, **12**  
Cap, Air Inlet Rod, **19**  
Cap, Drive, **36**  
Cap, End (Starter), **35**  
Cap, Fuel Tank, **53**  
Cap, Oil Fill, **41**  
Cap, Rain, **47**  
Cap, Starter End, **35**  
Cap, Starter Solenoid, **38**  
Cap, Valve, **11**  
Carburetor Components, Gasoline (Bein Spec F), **27**  
Carburetor Components, Gasoline (Spec A±E), **26**  
Carburetor Components, LP Liquid/Vapor, **28**  
Carburetor Kits, **72, 73**  
Carburetor, Gasoline, **19**  
Carburetor, LP Liquid, **25**  
Carburetor, LP Vapor, **23**  
Charger, Battery, **32**  
Clamp, Muffler, **45**  
Clip, Preheater Hose, **21**  
Clip, Throttle Rod (Begin Spec K), **16**  
Clutch and Spline, Starter, **35**  
Coil, Ignition (Begin Spec B), **31**  
Coil, Ignition (Spec A), **29**  
Components, Starter, **36, 37, 38**  
Condenser, Ignition (Spec A±F, H, J), **55**  
Condenser, Ignition (Spec G), **32**  
Connector, **31**  
Connector, Plug (6PL), **63**  
Connector, Receptacle (6 PL), **63**  
Connector, Receptacle (8 Pin), **63, 69**  
Control, **59**  
Control, Ignition, **31**  
Control, Remote Start, **70**  
Cover, Air Inlet, **21**  
Cover, Breaker Box, **30**  
Cover, Brush Block, **57**  
Cover, Carrying Frame Receptacle Box, **53**  
Cover, Choke, **19**  
Cover, Choke Housing, **19**  
Cover, Circuit Breaker, **59**  
Cover, Connector Hole, **63**  
Cover, Control, **59**  
Cover, Control Box, **63**  
Cover, Switch, **61**  
Cover, Valve, **11**  
Cover, Voltage Regulator (Stator Mount), **33**  
Crankshaft, **13**  
Cup, Governor, **12**  
Cup, Oil Pump Intake, **41**  
  
Diode, Remote Control Panel, **70**  
Drain, Oil Filter, **42**  
Drive Assembly, **37**  
Drive Pinion Assembly, **37**  
  
Elbow, 90 Degree Exhaust, **45**



## Index

Element, Air Cleaner (Gasoline), 19  
Element, Air Cleaner (LP Liquid), 25  
Element, Air Cleaner (LP Vapor), 23  
Element, Choke, 19  
Element, Fuel Filter, 25  
Exhaust Assembly, 45  
Exhaust System, 45, 47

Fan, Generator, 55  
Filter, Breather Tube, 11  
Filter, Carburetor Fuel, 19  
Filter, Fuel Pump, 19  
Filter, LPG, 25  
Filter, Oil, 42  
Fitting, Vacuum, 19  
Flywheel, 13  
Frame, Carrying, 53  
Fuel System (Gasoline), 18, 19, 20, 21  
Fuel System (LP Liquid), 25  
Fuel System (LP Vapor), 23  
Fuse, Automatic Choke Harness, 67  
Fuse, Battery Charger, 32  
Fuse, Engine Harness, 63  
Fuse, PC Board, 59

Gasket, Bearing Plate, 9  
Gasket, Breaker Box, 30  
Gasket, Control Box Window, 63  
Gasket, Cylinder Head, 9  
Gasket, Exhaust, 45, 53  
Gasket, Exhaust Manifold, 45, 47  
Gasket, Gasoline Air Horn, 19  
Gasket, Gasoline Carburetor Mounting, 19  
Gasket, Gasoline Intake Manifold, 19  
Gasket, Gearcase Mounting, 14  
Gasket, Hourmeter, 63  
Gasket, Ignition Plate, 31  
Gasket, Intake Manifold, 25  
Gasket, LP Carburetor Bowl, 28  
Gasket, LP Liquid Air Horn, 25  
Gasket, LP Liquid Carburetor Mounting, 25  
Gasket, LP Vapor Air Horn, 23  
Gasket, LP Vapor Carburetor Mounting, 23  
Gasket, LP Vapor Intake Manifold, 23  
Gasket, Oil Base, 41  
Gasket, Oil Drain Plug, 41  
Gasket, Oil Filter, 42  
Gasket, Oil Filter Adapter, 42  
Gasket, Valve Cover, 11  
Gear, Camshaft, 12  
Gear, Crankshaft, 13  
Gear, Ring, 55  
Gear, Starter, 35  
Gearcase (Kit), 14  
Generator, 55  
Governor (Begin Spec K), 16  
Governor (Spec A±J), 15  
Grip, Handle, 53  
Grommet, 55  
Guard, Scroll, 49  
Guide, Valve, 9

Handle, Dolly, 53  
Hanger, Exhaust, 45, 47  
Harness Assembly, 67  
Harness, Adaptor, 63  
Harness, AC Outlet (Begin Spec J), 63

Harness, AC Outlet (Spec A±H), 59  
Harness, Automatic Choke, 67  
Harness, Battery Charge, 32  
Harness, Battery Regulator (Begin Spec J), 64  
Harness, Below Floor Housing Extension, 51  
Harness, Carrying Frame, 53  
Harness, Engine (Begin Spec J), 63  
Harness, Fuel Pump, 19  
Harness, PC Board, 65  
Harness, PCB, 63  
Harness, Positive Shutoff, 66  
Harness, Remote, 68, 69  
Harness, Voltage Regulator, 61  
Harness, Wiring ± Remote, 69  
Head, Cylinder, 9  
Holdown, Battery, 53  
Holder, Automatic Choke Harness Fuse, 67  
Holder, Battery Charge Harness Fuse, 32  
Holder, Engine Harness Fuse, 63  
Holder, PC Board Fuse, 61  
Hose, Fuel, 25  
Hose, Oil, 23  
Hose, Preheat, 21  
Hose, Vacuum, 19  
Hourmeter, 63  
Housing, Air, 49  
Housing, Air Cylinder, 49  
Housing, Below Floor Models, 50, 51  
Housing, Breather, 11  
Housing, Choke, 19  
Housing, Connector, 69  
Housing, Gasoline Air Cleaner, 19  
Housing, LP Liquid Air Cleaner, 25  
Housing, LP Vapor Air Cleaner, 23  
Housing, Stator, 55  
Housing, Terminal, 69  
Hub, Governor Cup, 12

Ignition System (Begin Spec B), 31  
Ignition System (Spec A), 29  
Indicator and Cap Assembly, 39  
Insert, Valve Seat, 9  
Insulator, Fuse, 61  
Insulator, PC Board, 59  
Insulator, Start Solenoid Terminal, 59  
Insulator, Terminal, 47  
Isolator, Vibration, 41

Jet, Idle (Begin Spec F), 27  
Jet, Idle (Spec A±E), 26  
Jet, Main (Begin Spec F), 27  
Jet, Main (Spec A±E), 26  
Joint, Governor Rod Ball, 15

Key, Camshaft Woodruff, 12  
Key, Crankshaft Gear, 13  
Key, Extended Shaft, 55  
Kit Assembly, Drive, 36  
Kit, Accessory, 47  
Kit, Air Cleaner Housing Assembly (Gasoline), 21  
Kit, Air Cleaner Housing Assembly (LP), 23, 25  
Kit, Bearing Replacement, 55  
Kit, Below Floor Housing, 51  
Kit, Blower Wheel Key, 13  
Kit, Carburetor Repair (Begin Spec F), 27  
Kit, Carburetor Repair (Spec A±E), 26  
Kit, Choke Bimetal, 27

# Index

Kit, Choke Pulloff, 27  
Kit, Choke Shaft, 27  
Kit, Conversion Enhancement, 26, 27, 71  
Kit, Electronic Governor, 16  
Kit, Enable Relay Start, 67  
Kit, Exhaust Accessory, 45  
Kit, Float (Begin Spec F), 27  
Kit, Float (Spec A±E), 26  
Kit, Gasket, 72, 73  
Kit, Oil Fill Tube, 39  
Kit, Remote Adapter, 63  
Kit, Rotor, 57  
Kit, RV Accessory, 47  
Kit, Starter Brush, 38  
Kit, Starter Brush Holder Assembly, 38  
Kit, Starter Bushing, 38  
Kit, Starter Drive, 35, 38  
Kit, Starter Dust Seal, 38  
Kit, Starter Hardware, 38  
Kit, Starter Shift Lever, 38  
Kit, Starter Solenoid, 38  
Kit, Vertical Exhaust, 45  
Kit, Voltage Regulator Conversion, 33  
Kit, Wiring, 63

Label, Oil Capacity, 39  
Labels, 72, 73  
Lever, Throttle Shaft, 28  
Line, Carrying Frame Fuel, 53  
Line, Gasoline Fuel, 19  
Line, LP Liquid Fuel, 25  
Link, Governor Spring, 14  
Linkage, Choke, 19  
Linkage, Choke Pull±off, 19  
Lock, Housing, 63, 69  
Lock, Valve Spring, 11

Manifold, Exhaust, 45  
Manifold, Gasoline & LP Vapor Exhaust, 45  
Manifold, Intake (Gasoline), 19  
Manifold, Intake (LP Vapor), 23  
Manifold, LP Liquid Intake, 25  
Meter, Battery Condition, 70  
Meter, Time Totalizing, 70  
Muffler, 45  
Muffler, Carrying Frame, 53  
Muffler, Side Inlet, 45  
Muffler, Side Outlet, 45  
Muffler, Spark Arrester, 45, 47

Needle, Carburetor Idle Adjust, 28

O'Ring, Control Box Cover, 63  
O'Ring, Oil Fill Cap, 41  
O'Ring, Preheat Hose, 21  
O'Ring, Stator Housing, 57

Package, Signal Pad Plus, 47  
Paint, 72, 73  
Pan, Below Floor Housing Drip, 51  
Pan, Drip, 41  
Panel, Below Floor Panel, 51  
Panel, Carrying Frame Receptacle, 53  
Panel, Remote Control, 70  
Pin, Below Floor Housing Hinge, 51  
Pin, Piston, 9  
Pin, Terminal, 63, 69

Piston, 9  
Plate, Carburetor Throttle, 28  
Plate, Ignition Plunger Cover, 31  
Plate, Rear Bearing, 9  
Plug, Air Housing, 49  
Plug, Cavity, 63, 69  
Plug, Seal, 63  
Plug, Spark (Begin Spec B), 31  
Plug, Spark (Spec A), 29  
Plunger, Breaker Points (Spec A), 30  
Plunger, Bypass Valve, 9  
Point, Breaker (Spec A), 30  
Potentiometer (Begin Spec J), 63  
Potentiometer (Spec A±H), 59  
Pull±off, Choke, 19  
Pump, Electric Fuel, 19  
Pump, Oil, 9

Receptacle, 53  
Rectifier (Battery Charger), 32  
Rectifier Positive Shutoff Harness, 66  
Rectifier, Fuel Pump Harness, 19  
Reed, Breather Valve, 11  
Regulator, Battery, 64  
Regulator, Voltage (Control Mount) (Spec A±H), 61  
Regulator, Voltage (Drip Pan Mount) (Spec J), 41  
Regulator, Voltage (Stator Mount), 33  
Regulator, LP Liquid, 25  
Regulator, LP Vapor, 23  
Relay, Automatic Choke Harness, 67  
Relay, Engine Start Harness, 63  
Relay, Ignition, 32  
Relay, Starter, 63  
Resistor, Fuel Pump, 32  
Resonator, Exhaust (Gasoline Only), 45  
Retainer, Governor Adjust Cable Push±on, 15  
Ring Set, Piston, 9  
Ring, Armature Collector, 55  
Ring, Camshaft Retaining, 12  
Ring, Choke Housing Retainer, 19  
Ring, Flywheel Retaining, 13  
Ring, Piston Retaining, 9  
Ring, Tolerance, 55  
Rod Assembly, Air Inlet, 21  
Rod, Air Inlet, 21  
Rod, Connecting, 9  
Rod, Governor Arm to Carburetor, 15  
Rod, Throttle, 15  
Rod, Throttle Control (Begin Spec K), 16  
Rotor, Generator, 55  
Rotor, Ignition, 31

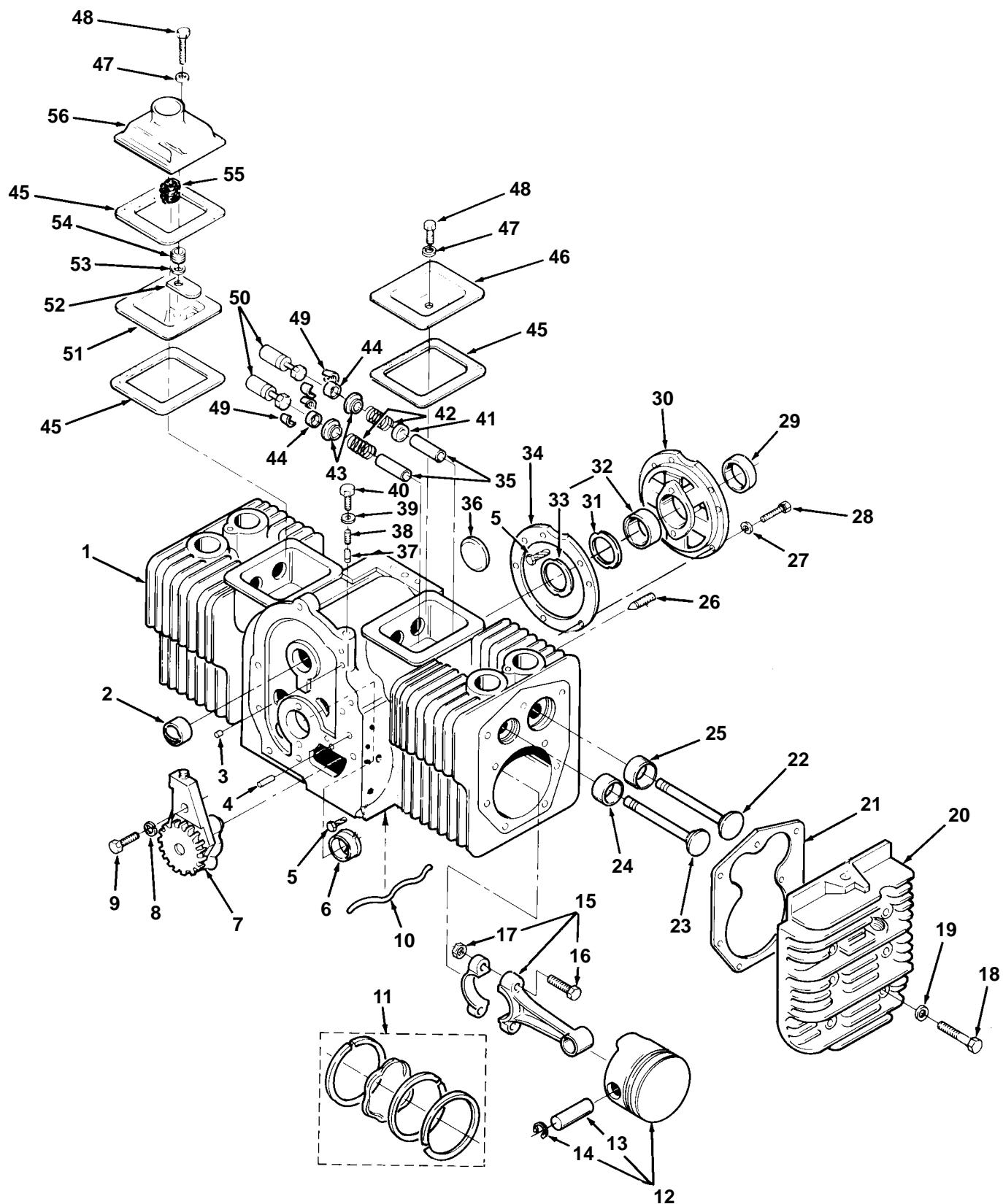
Scroll, 49  
Seal, Cable, 63, 69  
Seal, Carburetor Dust, 28  
Seal, Crankshaft Oil, 14  
Seal, Crankshaft Rear Oil, 9  
Seal, Governor Shaft Oil, 14  
Seal, Intake Valve, 11  
Seal, Oil Fill Tube, 39  
Sealant, Thread, 72, 73  
Servive Package, Starter, 37  
Shaft, Governor, 14  
Shield, Noise, 49  
Shim, Crankshaft, 9  
Solenoid, Fuel Lock, 25  
Solenoid, LP Vapor, 23

## Index

Solenoid, Start, **59**  
Solenoid, Starter, **38**  
Spacer, Below Floor Housing Brace, **51**  
Spacer, Engine Mount, **51**  
Spacer, Fuel Pump Mounting, **19**  
Spacer, Muffler, **45**  
Spline and Clutch, Starter, **35**  
Spring, Air Inlet Rod, **19**  
Spring, Breather Valve, **11**  
Spring, Bypass Valve, **9**  
Spring, Carburetor Idle Needle, **28**  
Spring, Carburetor Main Jet Screw, **28**  
Spring, Carburetor Throttle Stop, **28**  
Spring, Generator Brush, **57**  
Spring, Governor, **15**  
Spring, Governor Compression, **15**  
Spring, Governor Idle Needle, **14**  
Spring, Throttle Rod, **16**  
Spring, Valve, **11**  
Standoff, Voltage Regulator Cover, **33**  
Starter, **34**  
Starter Components, **35**  
Stator, Engine Battery Charge, **14**  
Stator, Generator, **55**  
Strap, Bond, **41, 55**  
Strap, Muffler, **45**  
Stud, Speed Adjustment, **15**  
Support, Below Floor Housing, **51**  
Switch, Low Oil Pressure, **42**  
Switch, Remote Rocker, **70**  
Switch, Rocker (Begin Spec J), **63**  
Switch, Rocker (Spec A±H), **61**  
  
Switch, Toggle, **53**  
Tailpipe, Muffler, **45**  
Tank, Fuel, **53**  
Tappet, Valve, **11**  
Terminal, Socket, **63**  
Tie, Cable, **34, 55, 59**  
Tire, **53**  
Transformer Assembly, **33**  
Transformer, Voltage, **63**  
Transformer, Voltage Regulator, **59**  
Tray, Battery, **53**  
Tray, Mounting, **32**  
Tube Bypass, Breather, **43**  
Tube, Breather, **21, 23, 25, 43**  
Tube, Carburetor Idle, **28**  
Tube, Choke Housing, **19**  
Tube, Cylinder Block Oil, **9**  
Tube, Exhaust, **45, 47, 53**  
Tube, Oil Fill, **39**  
  
Valve, Exhaust, **9**  
Valve, Fuel Shutoff, **25**  
Valve, Intake, **9**  
Valve, Oil Base Shutoff, **41**  
Valve, Vacuum Sustain, **27**  
  
Wedge, Plug (6PL), **63**  
Wheel, **53**  
Window, Control Box, **63**  
  
Yoke, Governor, **14**



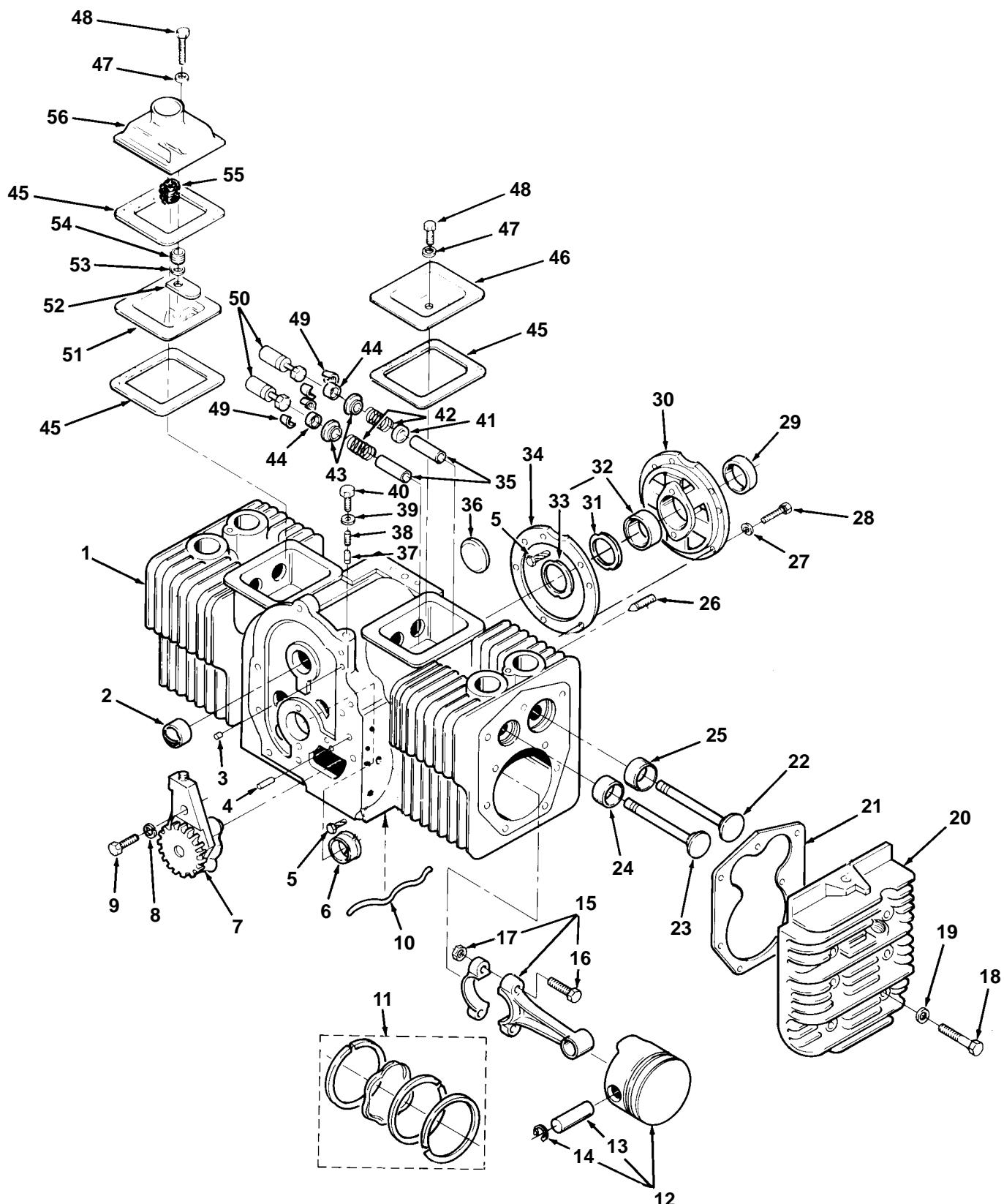
## Cylinder Block



## Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Block, Cylinder ± Not Sold, Order Shortblock (See ShortBlock Catalog #932±0109)	19	526±0122	18	Washer, Flat (5/16° Screw)
2	101±0405	2	Bearing, Camshaft	20	110±3509	1	Head, Cylinder
3	517±0067	1	Plug, Core Hole	21	110±3508	1	Right Side
4	516±0141	2	Pin, Gear Cover Alignment	22	110±3181	2	Left Side
5	516±0072	4	Pin, Bearing Stop Drive	23	110±3479	2	Gasket, Cylinder Head
6			Bearing, Front Crankshaft (Flanged)	24	110±3515	2	Valve, Intake
	101±0805	1	Standard	25	110±3480	2	Valve, Exhaust
	101±0805±02	1	.002° Undersize	26	110±1824	2	Gasoline
	101±0805±10	1	.010° Undersize	27	110±1824±02	2	LP
	101±0805±20	1	.020° Undersize	28	110±1824±05	2	Insert, Exhaust Valve Seat
	101±0805±30	1	.030° Undersize	29	110±1824±10	2	Standard
7	120±0491	1	Pump, Oil	30	110±1824±25	2	.002° Oversize
8	850±0040	2	Washer, Spring Lock (1/4°)	31	803±0071	2	.005° Oversize
9	800±0007	2	Screw, Hex Head Cap (1/4±20 x 1°)	32	850±0050	5	.010° Oversize
10	120±1320	1	Tube, Cylinder Block Oil	33	526±0402	5	.025° Oversize
11			Ring Set, Piston	34	800±0575	5	Insert, Intake Valve Seat
			Spec A±E	35	800±0051	5	Standard
	113±0314	2	Standard	36	509±0041	1	.010° Oversize
	113±0314±05	2	.005° Oversize	37	101±0439±01	1	.020° Undersize
	113±0314±10	2	.010° Oversize	38	104±0776	AR	.030° Undersize
	113±0314±20	2	.020° Oversize	39	101±0804	1	Washer, Cap
	113±0314±30	2	.030° Oversize	40	101±0804±02	1	Flanged Head (Special)
			Begin Spec F	41	101±0804±10	1	Spec A±E
	113±0310	2	Standard	42	101±0804±20	1	Hex Head (3/8±16 x 1±1/4°)
	113±0310±05	2	.005° Oversize	43	101±0804±30	1	Begin Spec F
	113±0310±01	2	.010° Oversize	44	104±0575	2	Seal, Crankshaft Rear Oil
	113±0310±02	2	.020° Oversize	45	101±0809	1	Plate, Rear Bearing
	113±0310±03	2	.030° Oversize	46	101±0804	1	Shim, Crankshaft End Play (.005°)
12			Piston (Includes Pin and Retaining Rings)	47	101±0804±02	1	Bearing, Rear Crankshaft (Includes Thrust Washer)
	112±0264	2	Standard	48	101±0804±10	1	Standard
	112±0264±05	2	.005° Oversize	49	101±0804±20	1	.002° Undersize
	112±0264±01	2	.010° Oversize	50	101±0804±30	1	.010° Undersize
	112±0264±02	2	.020° Oversize	51	104±0575	2	.020° Undersize
	112±0264±03	2	.030° Oversize	52	101±0809	1	.030° Undersize
13	112±0229	2	Pin, Piston	53	110±3527	2	Washer, Thrust (Special)
14	518±0311	4	Ring, Retaining	54	110±3526	2	Gasket, Bearing Plate
15			Rod, Connecting (Includes Bolt and Nut)	55	517±0048±01	1	Guide, Valve
	114±0397	2	Standard	56	120±0398	1	Exhaust
	114±0397±10	2	.010° Undersize	57	120±0140	1	Intake
	114±0397±20	2	.020° Undersize	58	526±0066	1	Plug, Camshaft Opening Welch (1±5/8°)
	114±0397±30	2	.030° Undersize	59	110±3526	2	Plunger, Bypass Valve
16	114±0392	4	Bolt, Connecting Rod	60	110±3527	2	Spring, Bypass Valve
17	870±0533	4	Nut, Self±Lock (5/16±24)	61	110±3526	2	Washer, Copper Flat (3/8° Screw)
18	800±0571	18	Screw, Hex Head Cap (Special) 2° Long				

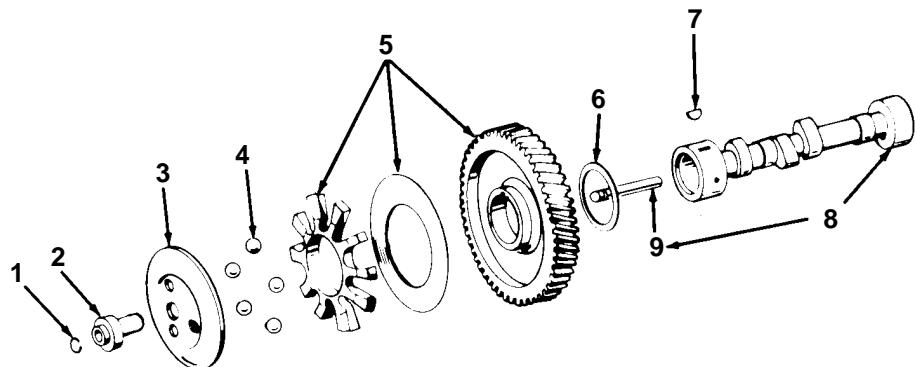
## Cylinder Block



## Cylinder Block

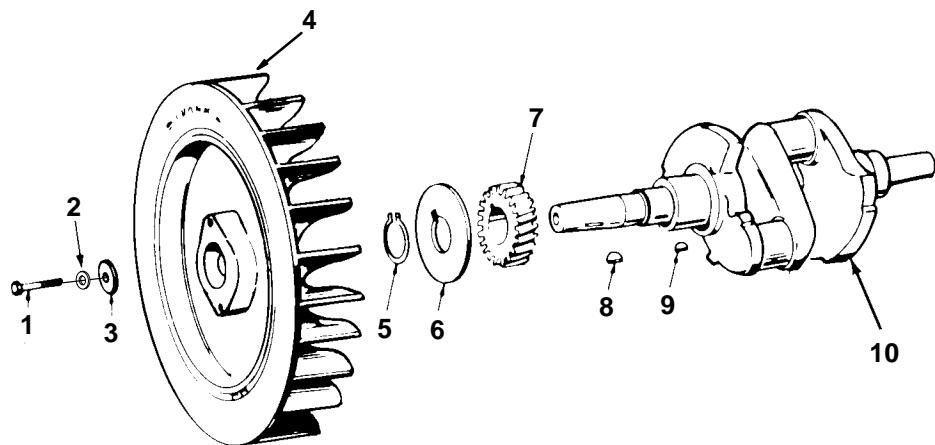
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
40	801±0049	1	Screw, Hex Head Cap (3/8±24 x 7/8) 3.5 psi	49	110±3511	8	Lock, Valve Spring
41	509±0289	2	Seal, Intake Valve	50	115±0006	4	Tappet, Valve
42	110±3485	4	Spring, Valve	51	123±1173	1	Baffle, Breather Valve
43	110±3487	4	Washer, Retaining Valve Spring	52	123±1175	1	Reed, Breather Valve
44	110±3510	4	Cap, Valve	53	526±0018	1	Washer, Flat (1/4° Screw)
45	110±3709	3	Gasket, Valve Cover	54	123±1174	1	Spring, Breather Valve
46	110±1879±01	1	Cover, Right Side Valve	55	123±1871	1	Filter, Breather Tube
47	526±0063	2	Washer, Copper Flat (1/4°)	56	123±1649	1	Housing, Breather
48	800±0010	2	Screw, Hex Head Cap (1/4±20 x 1±3/4°)				

## Camshaft



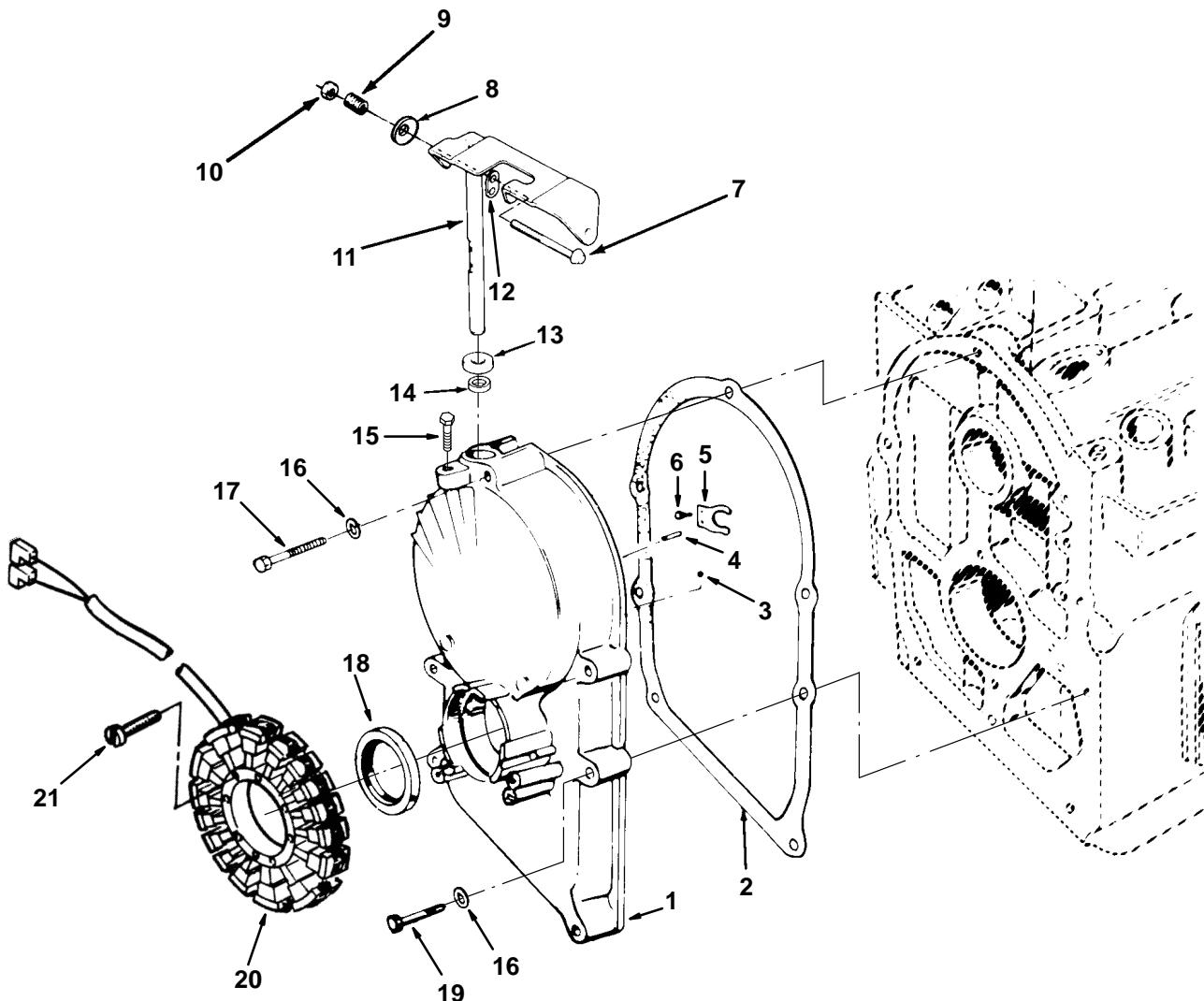
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150±0078	1	Ring, Retaining	6	105±0541	1	Washer, Thrust (Special)
2	150±1519	1	Hub, Governor Cup	7	515±0001	1	Key, Woodruff
3	150±1520	1	Cup and Bushing, Governor	8	105±0637	1	Camshaft (Includes Center Pin)
4	510±0015	10	Ball, Governor	9	150±0075	1	Pin, Center
5	105±0700	1	Gear, Camshaft (Includes Gear, Spacer and Plate)				

## Crankshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104±0170	1	Screw, Hex Head Cap (Special)	6	104±0043	1	Washer, Gear
2	526±0356	1	Washer, Flat (7/16° Screw)	7	104±0032	1	Gear, Crankshaft
3	526±0017	1	Washer, Flat (7/16° Screw)	8	515±0263	1	Kit, Blower Wheel Key (Includes Three Keys ± 5/8°, 3/4°, 1±1/8°)
4			Flywheel				Key, Crankshaft Gear
	134±4342±01	1	Spec A±H	9	515±0001	1	Crankshaft
	205±0235	1	Begin Spec J	10	104±1735	1	
5	518±0014	1	Ring, Retaining				

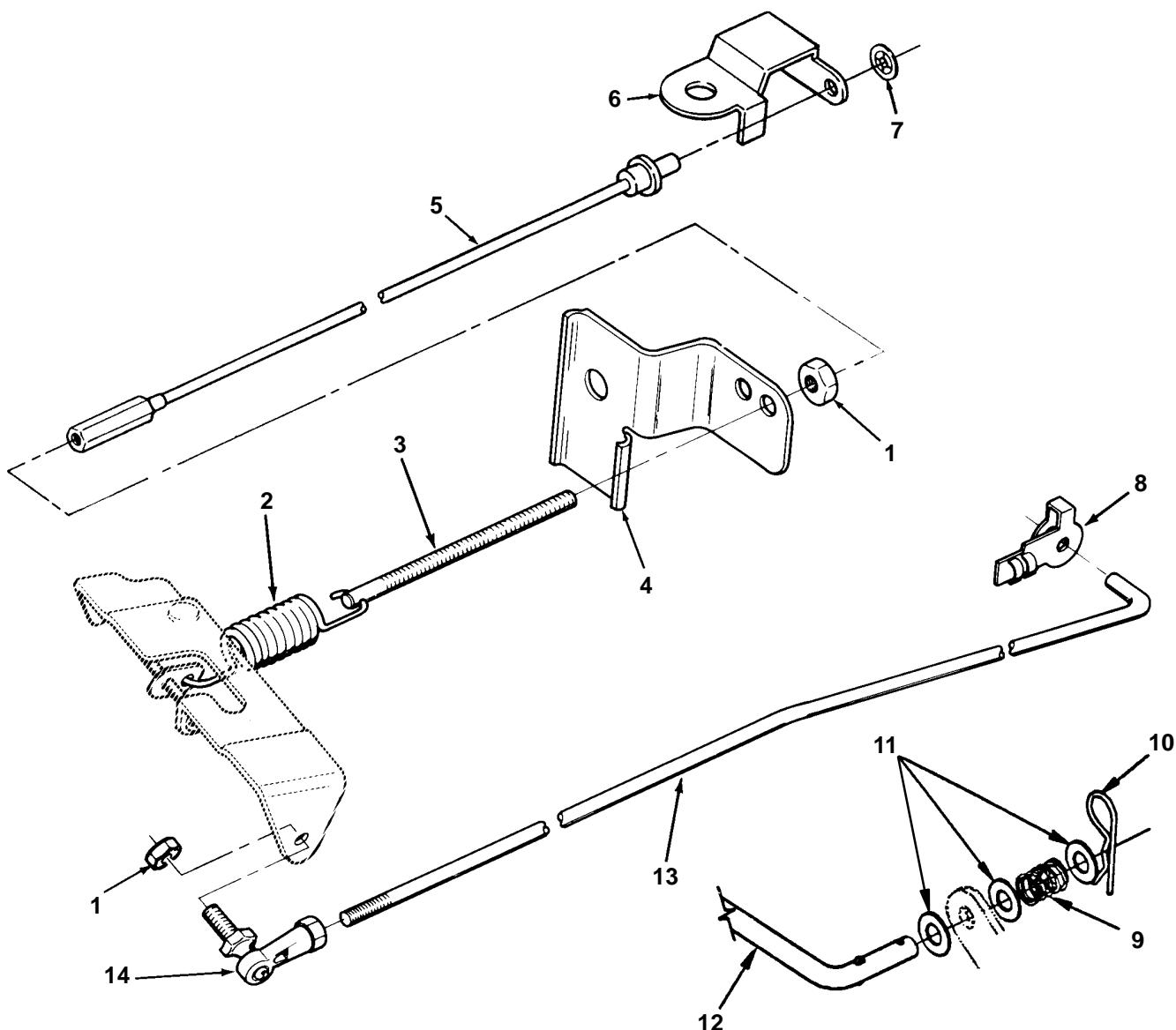
## Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	103±0772	1	Kit, Gearcase Spec A±H (Includes Parts Marked *)	13	509±0008	1	+* Seal, Governor Shaft Oil
	103±0822	1	Begin Spec J (Includes Parts Marked +)	14	510±0013	1	+* Bearing, Needle
2	103±0810	1	Gasket, Gearcase Mounting	15	815±0261	1	+* Screw, Self±Tapping Hex Washer Head (1/4±20 x 7/16°)
3	510±0014	1	+* Ball, Bearing	16	526±0065	5	Washer, Copper Flat (5/16° Screw)
4	516±0130	1	+* Pin, Governor Cup Dowel	17	800±0545	1	Screw, Hex Head Cap (2±3/4° Long) (Special)
5	150±1187	1	+* Yoke, Governor	18	509±0040	1	+* Seal, Crankshaft Oil
6	815±0046	2	+* Screw, Pan Head Machine (8±32 x 3/8°)	19	800±0032±01	4	Screw, Hex Head Cap (1±3/4° Long) (Shakeproof)
7	820±1077	1	+* Screw, Pan Head (10±32 x 2±1/2°)	20	191±1456±05	1	Stator (Begin Spec J)
8	851±0031	1	+ Washer, Conical Disc Spring	21	815±0659	3	Screw (Begin Spec J)
9	141±0710	1	* Spring, Idle Needle				
10	870±0328	1	+* Nut, Self±Lock (10±32°)				
11	150±2002±04	1	+* Arm and Shaft, Governor				
12	150±1998	1	+* Link, Governor Spring				

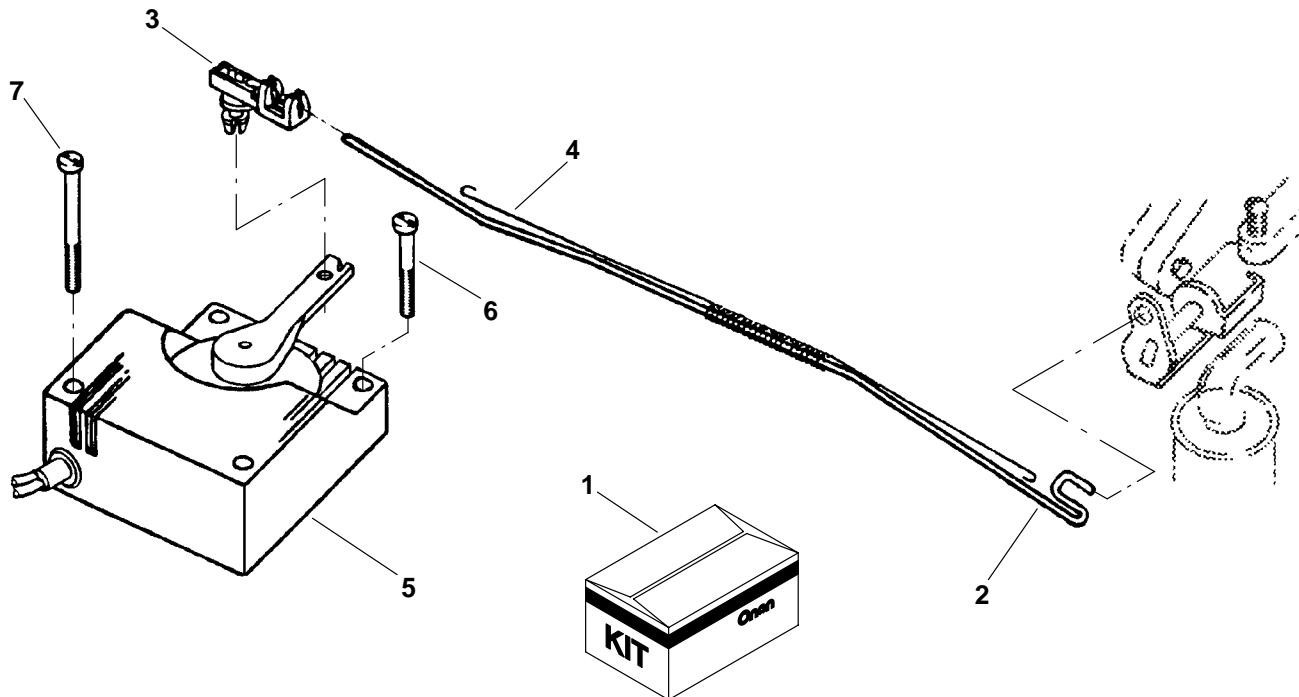
\* ± Parts Included in Gearcase Kit ± Spec A±H.  
+ ± Parts Included in Gearcase Kit ± Begin Spec J.

**Governor  
Spec A±J**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870±0131	2	Nut, Self-Lock Hex (#10±32)	10	518±0606	1	Clip, Linkage (Begin Spec C)
2	150±1612	1	Spring, Governor	11	150±2589	3	Washer, Friction (Begin Spec C)
3	150±0096	1	Stud, Speed Adjustment	12			Rod, Throttle
4			Bracket, Governor	13	150±2428	1	Gasoline and LP Vapor
	150±1958±02	1	Gasoline and LP Vapor	150±2468	1	LP Liquid	
	150±2298±01	1	LP Liquid				Rod, Governor Arm To Carburetor
5	150±2294	1	Cable, Governor Adjust (Begin Spec C)		150±1957	1	Gasoline and LP Vapor
6	150±2295	1	Bracket, Governor Adjust Cable		150±2493	1	LP Liquid
7	518±0582	1	Retainer, Push-On	150±2079	1	Spec A,B	
8	518±0006	1	Clip, Retaining				Begin Spec C
9	150±2421	1	Spring, Compression (Begin Spec C)	14	150±0939	1	Joint, Ball

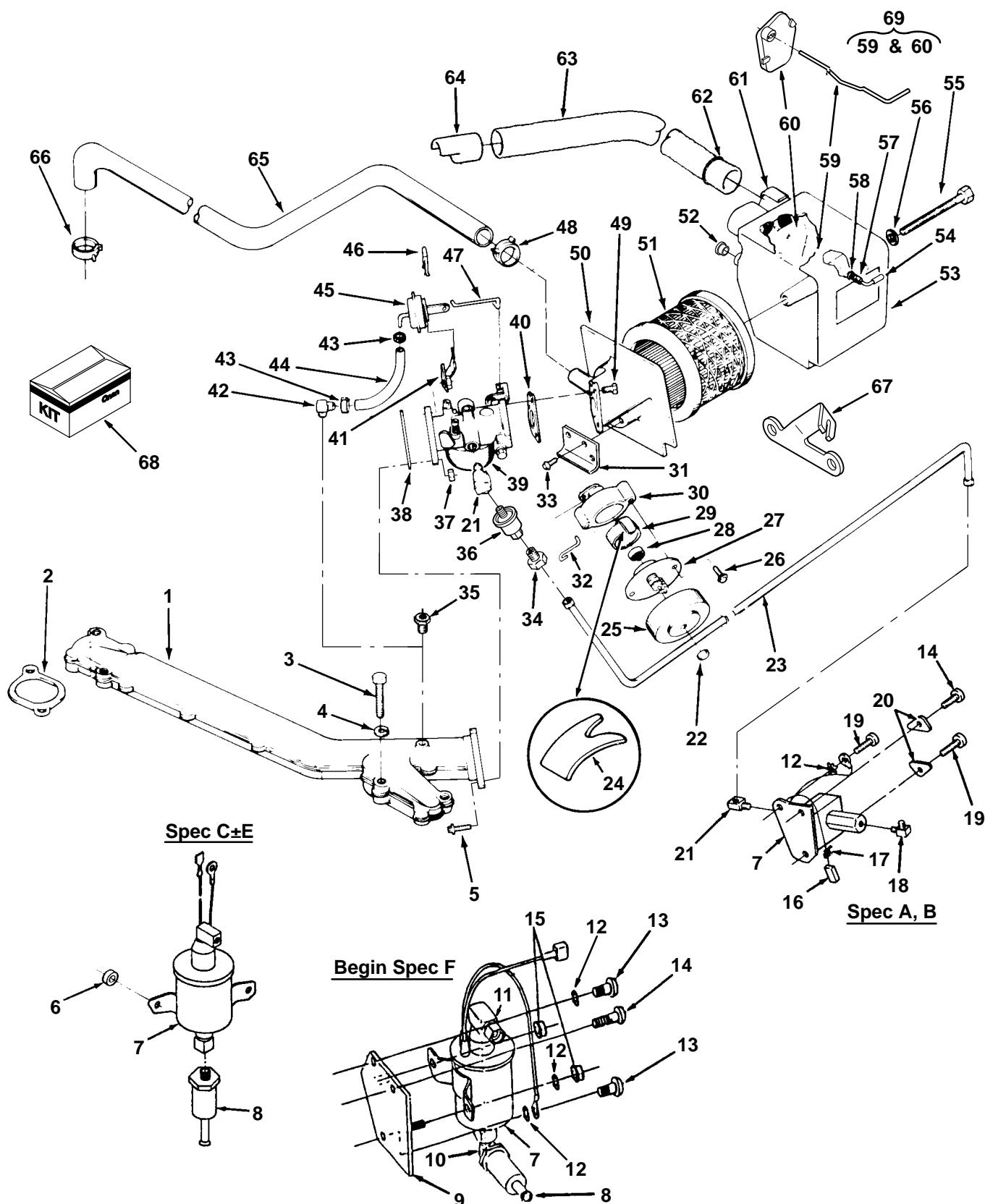
**Electronic Governor**  
**Begin Spec K**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151±0760	1	Kit, Electronic Governor (Includes All Parts Listed on This Page)	140±2308		1	Gasket, Air Horn
2	150±2424	1	Rod, Throttle Control	141±0958		1	Gasket, Carburetor
3	150±2425	1	Clip, Throttle Rod	146±0631		1	Carburetor
4	150±2426	1	Spring, Throttle Rod	150±2707±02		1	Bracket, Governor
5	151±0701	1	Actuator, Governor (K2)	150±2723±02		1	Plate, Mounting
6	815±0783±01	2	Screw, Pan Head Torx (#10±32 x 1±5/8°)	151±0752		1	Controller, Governor
7	815±0783±02	2	Screw, Pan Head Torx (#10±32 x 2±1/8°)	338±3699		1	Harness, Electric Governor
			The Following Parts in Kit are Not Shown: Sheet, Instructions Label, Blank Kit Number	800±0007		2	Screw, Hex Head Cap
	G±334	1		815±0181		1	Screw, Hex Head Thread Cutting
	98± 4240	1		815±0261		1	Screw, Hex Washer Thread Forming
				818±0237±01		1	Rivet, Pop
				870±0065		2	Nut, Self±Locking



## Fuel System Gasoline

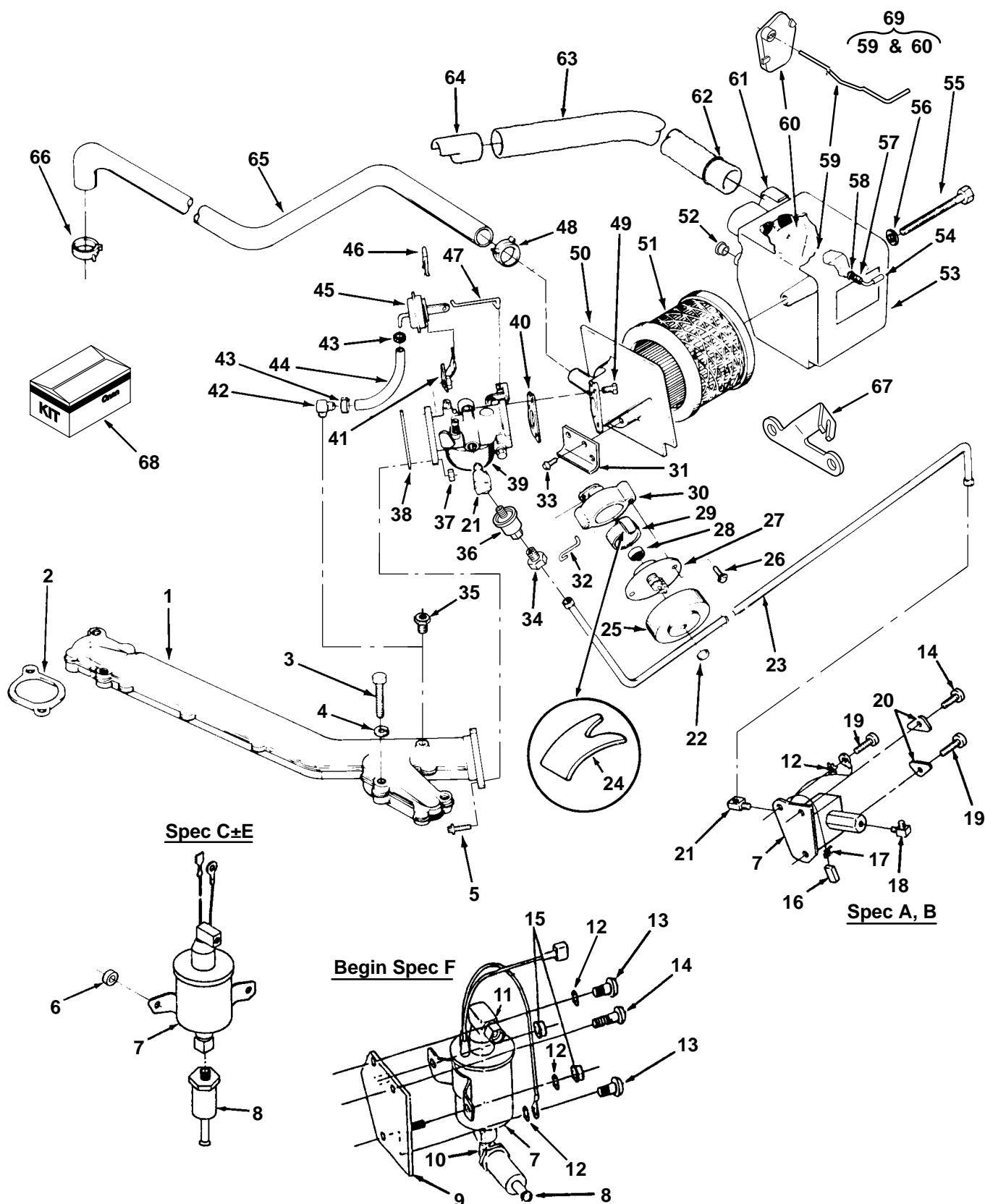


## Fuel System Gasoline

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Manifold, Intake	28	153±0554	1	Bi±Metal, Choke
	154±2447	1	Spec A±J	29	153±0578	1	Tube, Choke Housing
	154±3026	1	Begin Spec K	30	153±0556	1	Housing, Choke (Includes Choke Shaft)
2	154±2495	2	Gasket, Intake Manifold				
3	800±0033	4	Screw, Hex Head Cap (5/16±18 x 2 <sup>0</sup> )		518±0387	1	Ring, Choke Housing Retainer (Not Illustrated)
4	850±0045	4	Washer, Spring Lock (5/16 <sup>0</sup> )	31	153±0557	1	Bracket, Choke Housing Mounting
5	815±0587	2	Screw, Hex Washer Head (Special)	32	153±0558	1	Linkage, Choke
6	370±4052	2	Spacer, Fuel Pump Mounting (Spec C±E)	33	815±0591	2	Screw, Hex Washer Head (Special) Spec A±F
7			Pump, Electric Fuel (Includes Mounting Bracket) (E2)	34	502±0003	1	Connector, Inverted Flare Male (Begin Spec B)
	149±2140	1	Spec A,B	35	502±0028	1	Plug, Brass Pipe (1/8 <sup>0</sup> ) (Begin Spec F)
	149±2269	1	Spec C±E				Filter, Fuel (Carburetor)
	149±2331	1	Spec F±H	36	149±2333	1	Nut, Hex (5/16±18)
	149±2331±02	1	Begin Spec J	37	862±0015	2	Gasket, Carburetor Mounting
8	149±1353	1	Filter, Fuel (Fuel Pump)				Spec A±E
9	149±2354±02	1	Bracket, Fuel Pump (Begin Spec F)	38			Begin Spec F
10	502±0020	1	Elbow, Street ± 905 (Begin Spec F)	39			Carburetor (Includes Mounting Gasket) (See Separate Page for Components)
11	502±0003	1	Connector, Inverted Male				Spec A±E
12	856±0006	3	Washer, EIT (1/4 <sup>0</sup> )	40	140±0455	1	Begin Spec F ± Automatic Choke
13	815±0782	2	Screw, Pan Head (1/4±20 x 5/8 <sup>0</sup> ) (Begin Spec F)	41	153±0561	1	Gasket, Air Horn
14	815±0692±02	1	Screw, Pan Head (1/4±20 x 1 <sup>0</sup> )	42	502±1105	1	Bracket, Diaphragm Mounting
15	870±0212	2	Nut, Lock Head (1/4±20) (Begin Spec F)				Fitting, Vacuum (Intake 905 Manifold To Vacuum Hose)
16	338±2361	1	Harness, Fuel Pump (Includes Rectifier) Volt Code FD	43	503±0813	2	Clamp, Hose
17	357±0067	1	Rectifier, Fuel Pump Harness (CR6)	44	503±1252	1	Hose, Vacuum (Spec F) (3/16 <sup>0</sup> ID x 3 <sup>0</sup> Long)
18	502±0313	1	Elbow, 905	45	153±0576	1	Pull±off, Choke (Spec A±E)
19			Screw, Thread Form Torx	46	518±0450	1	Clip, Diaphragm Mounting
	815±0290	2	Spec A (1/4±20 x .62 <sup>0</sup> )	47	153±0577	1	Bracket U
	815±0772	2	Begin Spec B ± Pan Head (Special)	48	503±1133	1	Linkage, Choke Pull±off
20	149±2226	2	Washer, Fuel Pump (Spec A)	49	815±0590	3	Clamp, Breather Tube Hose
	332±0556	3	Connector, Splice ± Window ± Fuel Pump (Not Shown)	50			Screw, Hex Head (Special)
21			Elbow, Inverted Male	140±2782			Adapter, Air Cleaner
	502±1108	2	Spec A,B ± Heavy Duty	140±2725			Spec A±E ± Standard
	502±0002	1	Spec C±E ± Standard	140±2884			Spec F ± Heavy Duty
	502±1108	2	Begin Spec F ± Heavy Duty	140±3093			Begin Spec J
22	870±0421	1	Nut, Cap (6±32)	51	140±2379	1	* Begin Spec K
23			Line, Fuel (Includes 2 Inverted Nuts)	52	517±0320	1	Element, Air Cleaner
	149±2080	1	Spec A	53			Plug, Button (Begin Spec J)
	149±2289	1	Spec B	140±2883±01	1		Housing, Air Cleaner (Includes Label)
	149±2319	1	Spec C±E	140±2962	1		Spec A±H
	149±2352	1	Begin Spec F	54	517±0223	1	* Begin Spec J
24	518±0466	1	Clip, Choke Housing	55	800±0017	1	Begin Spec K
25	153±0579	1	Cover, Choke Housing	56	526±0021	1	*Cap, Air Inlet Rod
26	815±0592	2	Screw, Hex Washer Head (Special)	57	120±0140	1	Screw, Hex Head Cap (1/4±20 x 3±1/2 <sup>0</sup> )
27	153±0555	1	Element and Cover, Choke (H1)	58	526±0002	1	Washer, Flat (1/4 <sup>0</sup> Screw)
							*Spring, Air Inlet Rod
							*Washer, Flat (#6 Screw)



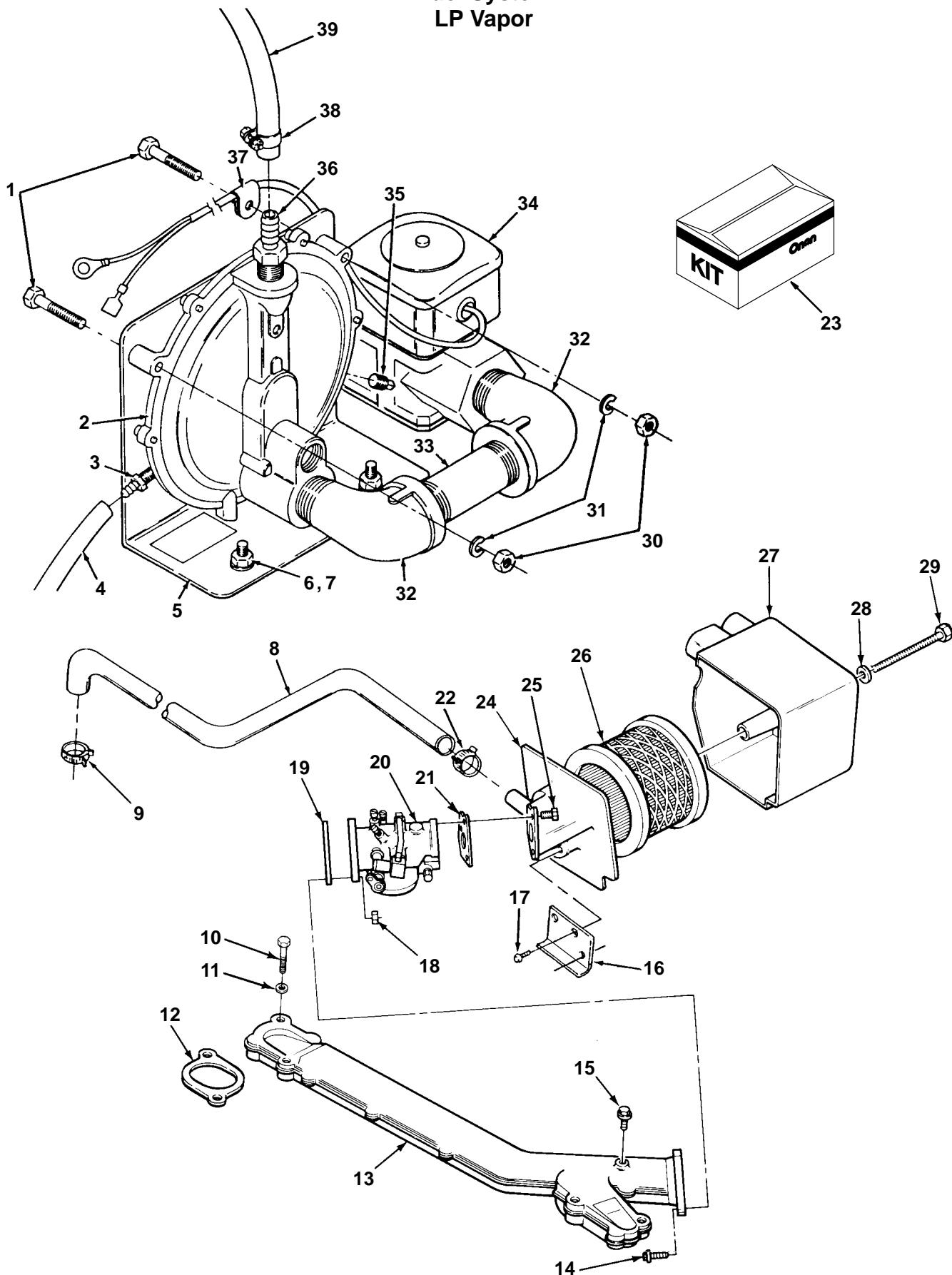
## Fuel System Gasoline



## Fuel System Gasoline

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
59		1	Rod, Air Inlet	67	149±2038	1	Bracket, Fuel Line
	145±0667	1	Spec A±H	68	140±2976	1	Kit, Air Cleaner Housing
	145±0707	1	@ Begin Spec J				Assembly (Gasoline)
60	145±0561	1	@ Cover, Air Inlet				(Includes Parts Marked *)
61	518±0459	1	Clip, Preheater Hose	69	145±0704	1	*Rod Assembly, Air Inlet
62	509±0313	1	O'Ring (Begin Spec F) (Spec A±J Only)				(Includes Rod & Cover Marked @)
63	503±1351	1	Hose, Preheat (Spec A±J Only)				* ± Parts included in Air Cleaner Housing Assembly Kit.
64		1	Adapter, Preheat Hose				@ ± Parts Included in Air Inlet Rod Assembly.
	140±1919±70	1	Spec A±H				
	140±2915±02	1	Begin Spec J				
65	123±1615	1	Tube, Breather				
66	503±0183	1	Clamp, Breather Tube Hose				

**Fuel System  
LP Vapor**

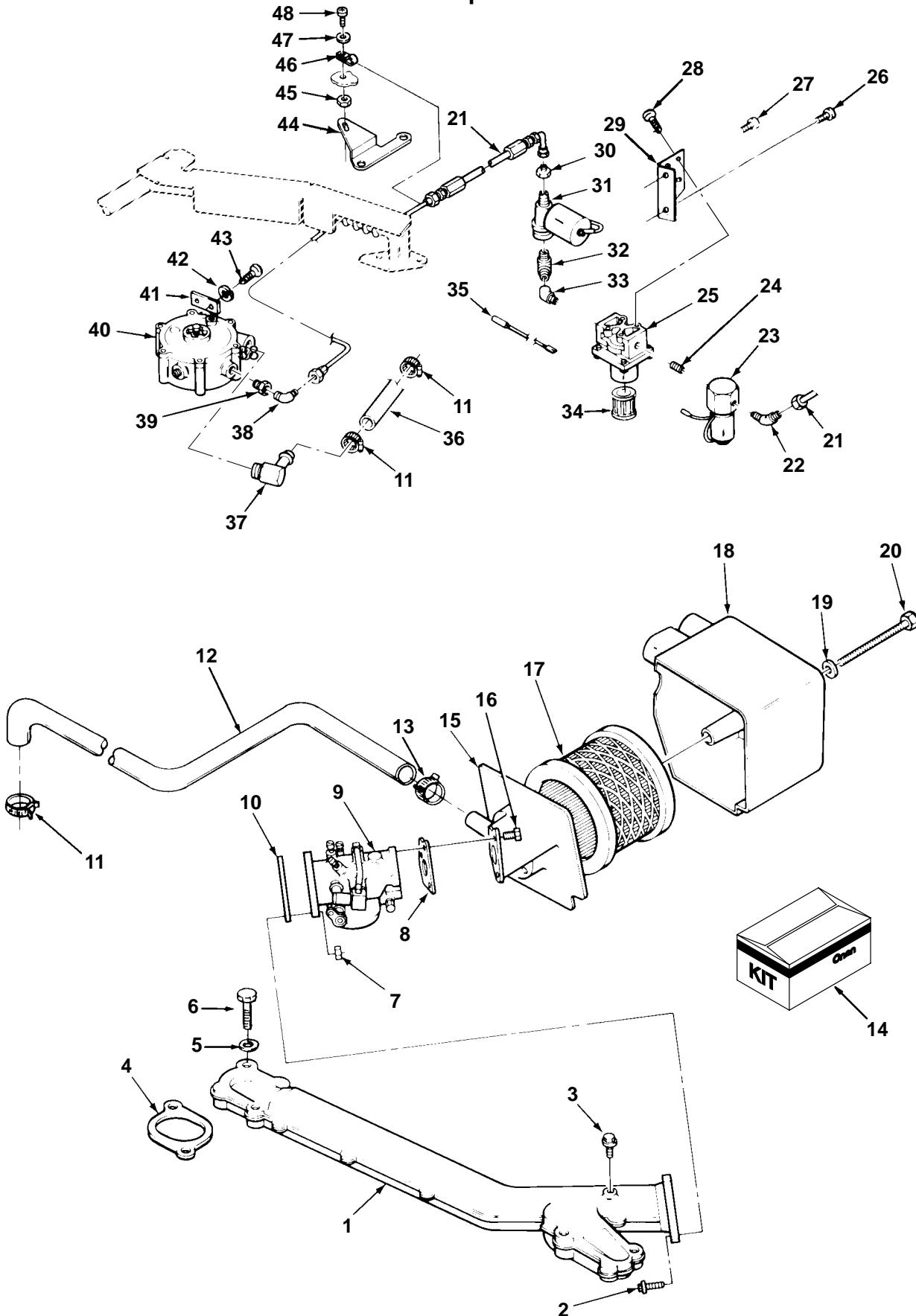


## Fuel System LP Vapor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	114±0023	2	Screw, Hex Head Cap (1/4±20 x 1±1/4 <sup>0</sup> )	23	140±2977	1	Kit, Air Cleaner Housing Assembly (LP) (Includes Adapter & Housing Marked *)
2			Regulator	24			Adapter, Air Cleaner
	148±0311	1	Spec A±J		140±2782	1	Spec A±J
	148±1020	1	Spec K & Up (LPG Vapor)		140±3093	1	* Begin Spec K
3	502±0395	1	Connector, Hose	25	815±0590	3	Screw, Hex Head Cap (Special)
4	503±1016	1	Hose, Oil (Vent) 12 <sup>0</sup> Long	26	140±2379	1	Element, Air Cleaner
5	148±0852	1	Bracket, Gas Regulator	27			Housing, Air Cleaner
6	800±0028	2	Screw, Hex Head Cap (5/16±18 x 1 <sup>0</sup> )		140±1894	1	Spec A±J
7	870±0257	2	Nut, Self±Lock Hex (5/16±18)		140±2962	1	* Begin Spec K
8	123±1615	1	Tube, Breather	28	526±0021	3	Washer, Flat (1/4 <sup>0</sup> )
9	503±0183	1	Clamp, Hose (9/16 to 1±1/16 <sup>0</sup> )	29	800±0017	1	Screw, Hex Head Cap (1/4±20 x 3±1/2 <sup>0</sup> )
10	800±0033	4	Screw, Hex Head Cap (5/16±18 x 2 <sup>0</sup> )	30	862±0001	2	Nut, Hex (1/4±20)
11	740±1006	4	Washer, Flat (M8)	31	850±0040	2	Washer, Lock (1/4 <sup>0</sup> )
12	154±2495	2	Gasket, Intake Manifold	32	505±0051	2	Elbow, 905 Street
13			Manifold, Intake	33	505±0332	1	Nipple, Pipe (3/4 x 3.00 Lg)
	154±2447	1	Spec A±J	34	307±1881	1	Solenoid
	154±3026	1	Begin Spec K	35	505±0057	1	Plug, Square Head
14	815±0587	2	Screw, Hex Washer Head (Special)	36	502±0238	1	Connector, Hose
15	505±1426	1	Plug, Hex Pipe (1/8 <sup>0</sup> )	37	518±0350	1	Clamp, Insulated (1/4 <sup>0</sup> OD)
16	307±2559±01	1	Bracket, Ignition Relay	38	503±0183	2	Clamp, Hose (#4)
17	815±0591	2	Screw, Hex Washer Head (Special) Spec A±F	39	503±1048	1	Hose, 30 <sup>0</sup> Fuel
18	862±0015	2	Nut, Hex (5/16±18)				
19	141±0958	1	Gasket, Carburetor Mounting				
20			Carburetor (See Separate Page for Components)				
	141±0932	1	Spec A±J				
	146±0727	1	Spec K & Up (LPG Vapor)				
21	140±2308	1	Gasket, Air Horn				
22	503±1133	1	Clamp, Breather Tube Hose				

\* ± Parts Included in (LP) Air Cleaner Housing Assembly Kit.

**Fuel System  
LP Liquid**

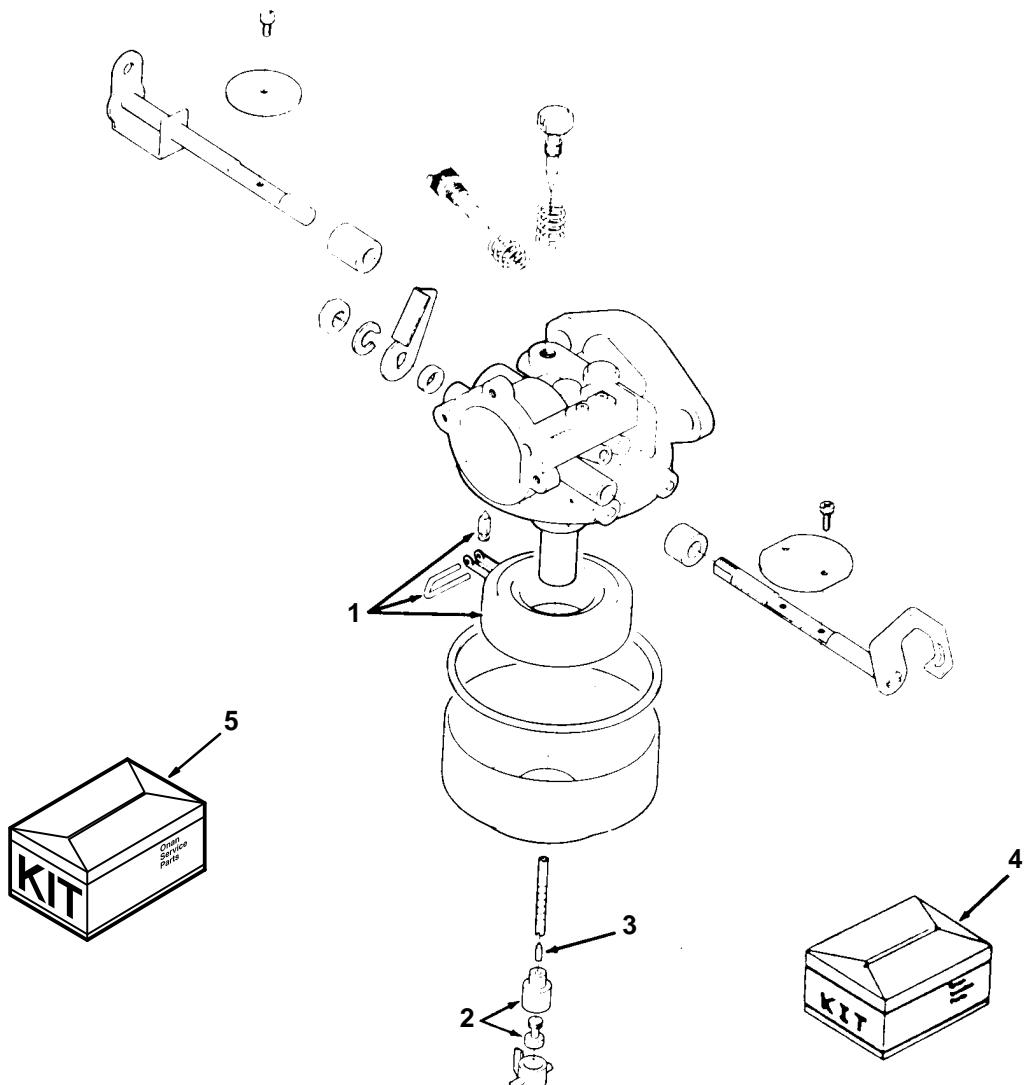


## Fuel System LP Liquid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154±2447	1	Manifold, Intake	26			Screw, Thread Forming (Special)
2	815±0587	2	Screw, Hex Washer Head (Special)	815±0664		1	Spec A
3	505±0274	1	Plug, Hex Pipe (1/8°)	815±0782		1	Begin Spec B
4	154±2495	2	Gasket, Intake Manifold	27			Screw, Pan Head (Special)
5	740±1006	4	Washer, Flat (M8)	815±0692±01		1	Spec A
6	800±0033	4	Screw, Hex Head Cap (5/16±18 x 2°)	815±0692±02		1	Begin Spec B
7	862±0015	2	Nut, Hex (5/16±18)	28	815±0261	2	Screw, Hex Washer Head (1/4±20 x 1/2°)
8	140±2308	1	Gasket, Air Horn	29			Bracket, Filter Mounting (Spec 1932 and 30503)
9			Carburetor (See Separate Page For Components)	148±0896		1	Spec A
	141±0932	1	Spec A±J	148±0903±02		1	Begin Spec B
	146±0723	1	Spec K & Up (LPG Liquid)	30	502±0928±01	1	Adapter, Reducer (Front Outlet ± Exhaust Manifold)
10	141±0958	1	Gasket, Carburetor Mounting	31	307±2478	1	Solenoid, Fuel Lock (E2) (Front Outlet ± Exhaust Manifold)
11	503±0183	3	Clamp, Hose (9/16 to 1±1/16°)	32	502±0933±01	1	Elbow, 905 Male
12	123±1615	1	Tube, Breather	502±0054		1	Front Outlet, Exhaust Manifold
13	503±1133	2	Clamp, Breather Tube Hose	33	502±0932±01	1	Bottom Outlet, Exhaust Manifold
14	140±2977	1	Kit, Air Cleaner Housing Assembly (LP) (Includes Adapter & Housing Marked *)	34	148±0898	1	Elbow, 455 Street (Front Outlet, Exhaust Manifold)
15			Adapter, Air Cleaner Spec A±J	35	336±9679	1	Element, Fuel Filter
	140±1889	1	* Begin Spec K	36	503±1365	1	Lead, Filter Mounting Bracket
16	815±0590	3	Screw, Hex Head Cap (Special)	37	502±0935	1	Hose, Fuel (7±1/2° Long)
17	140±2379	1	Element, Air Cleaner	38	502±0838	1	Elbow, 905
18			Housing, Air Cleaner Spec A±J	39	502±0927±01	1	Elbow, 905 Reducing
	140±1894	1	* Begin Spec K	40	148±0893	1	Bushing, Reducer (3/8 x 1/4°)
19	140±2962	1	Washer, Flat (1/4° Screw)	541±0532		1	Regulator, LP Liquid
20	526±0021	1	Screw, Hex Head Cap (1/4±20 x 3±1/2°)	41	148±0897	1	Spec A±J
21	800±0017	1	Line, Fuel With 905 Swivel (13±1/2° Long)	42	850±0040	2	Spec K & Up (LPG Liquid)
	501±0497	1	Without Swivel (17±1/4° Long)	43	815±0647	2	Washer, Regulator Mounting
	501±0525	1		44	149±2032±01	1	Washer, Lock (1/4°)
22	502±0965±01	1	Elbow, 455 Reducing (Bottom Outlet, Exhaust Manifold)	45	870±0221	1	Screw, Hex Washer Head (1/4±20 x 5/8°)
23	307±2501	1	Valve, Fuel Shutoff (Bottom Outlet, Exhaust Manifold)	46	503±1190	1	Bracket, Fuel Line
24	502±0929±01	1	Nipple, Close (Bottom Outlet, Exhaust Manifold)	47	526±0003	1	Nut, Hex (8±32)
25	148±0890	1	Filter, LPG (Includes Element and O±Rings)	48	815±0176	1	Clamp, Hose
							Washer, Flat (#8)
							Screw, Hex Head Machine (8±32 x 1/2°)

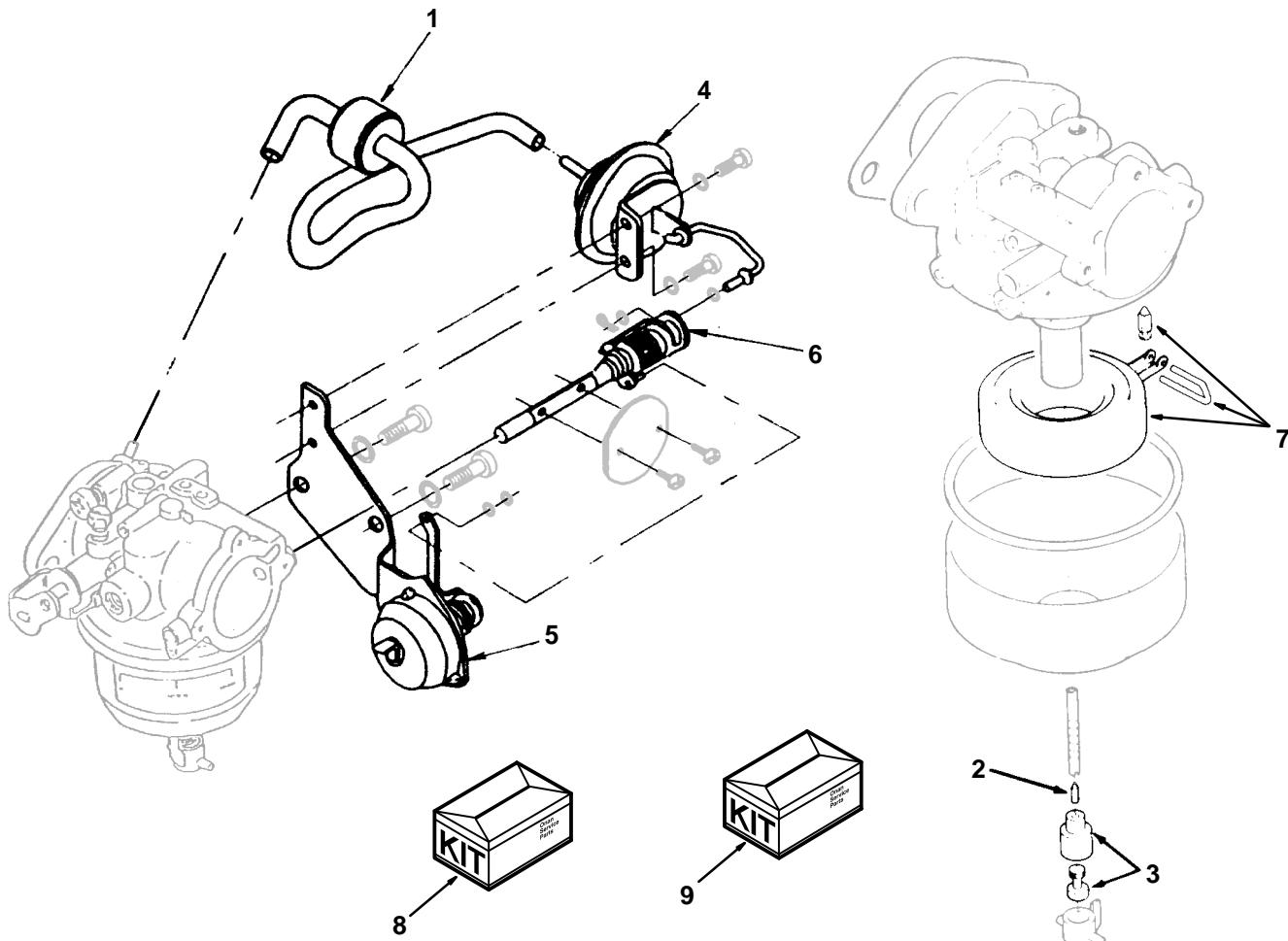
\* ± Parts Included in (LP) Air Cleaner Housing Assembly Kit.

**Carburetor Components**  
**Gasoline**  
**(Spec A±E)**



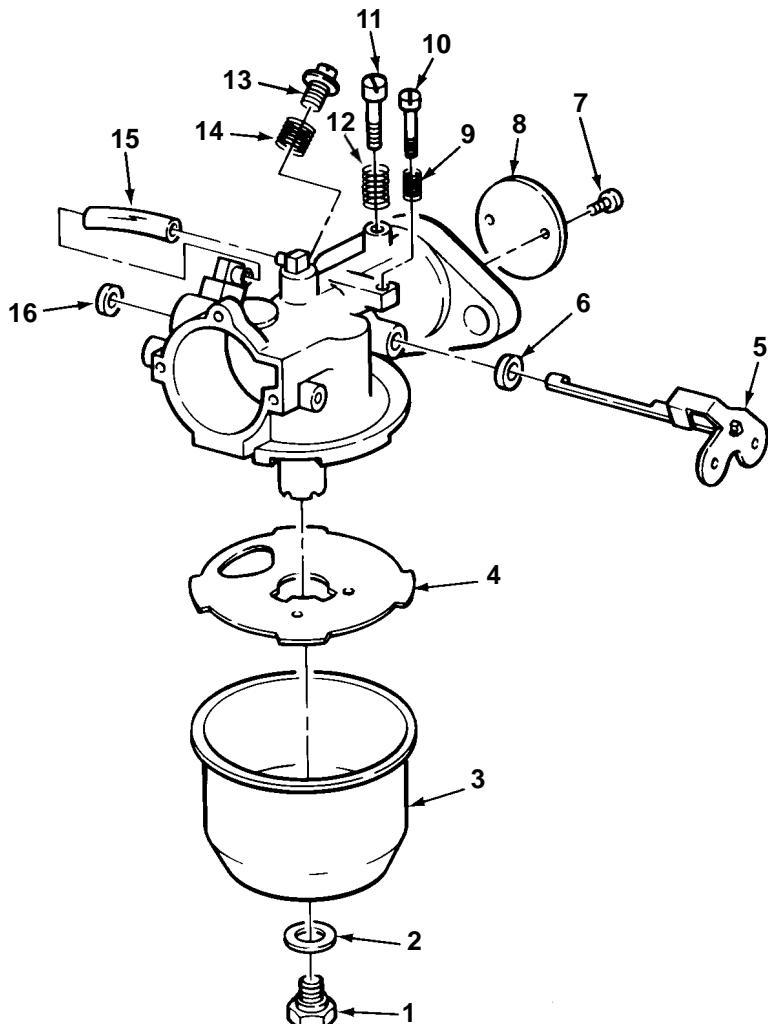
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146±0455	1	Carburetor, Complete
1	146±0453	1	Kit, Float (Includes Float, Pin, Valve and Set Screw)
2	146±0450	1	Jet, Main
3	146±0449	1	Jet, Idle
4	146±0457	1	Kit, Repair (Includes Air Horn Gasket, Flange Gasket, Float Chamber Gasket, Float Valve, Idle Adjust Spring, Idle Adjust Screw, Idle Adjust Cap, Power Limiter Cap, Power Jet Assembly Gasket, Throttle Stop Spring, Throttle Stop Screw, Throttle Adjust Screw and Throttle Adjust Screw Nut)
5	146±0586	1	Kit, Conversion Enhancement (See Page 71)

**Carburetor Components**  
**Gasoline**  
**(Begin Spec F)**



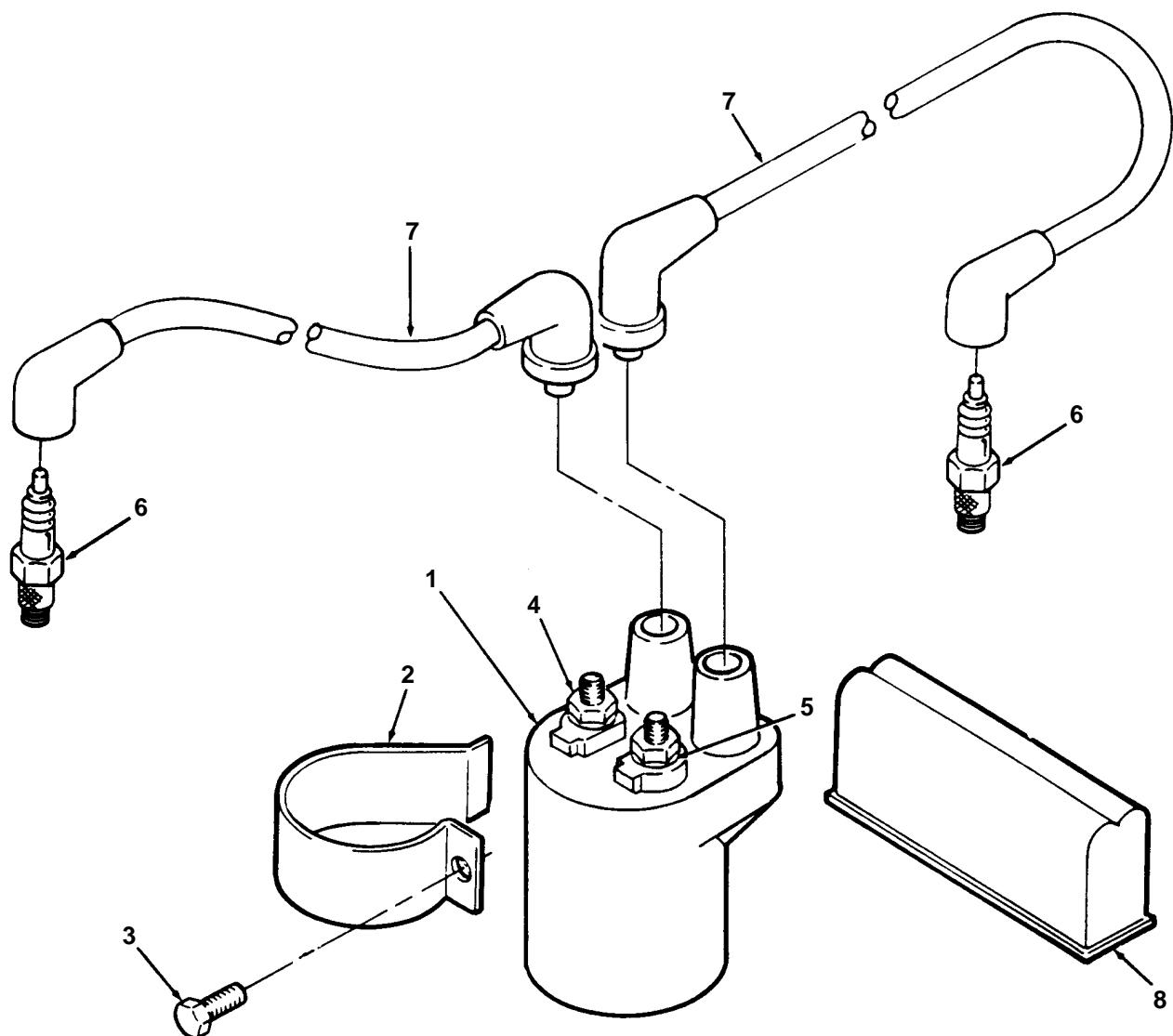
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146±0663	1	Carburetor, Complete	7	146±0453	1	Kit, Float (Includes Float, Pin, Valve and Set Screw)
2	146±0590	1	Valve, Vacuum Sustain	8	146±0457	1	Kit, Repair (Includes Air Horn Gasket, Flange Gasket, Float Chamber Gasket, Float Valve, Idle Adjust Spring, Idle Adjust Screw, Idle Adjust Cap, Power Limiter Cap, Power Jet Assembly Gasket, Throttle Stop Spring, Throttle Stop Screw, Throttle Adjust Screw and Throttle Adjust Screw Nut)
3	146±0449	1	Jet, Idle				
4	146±0450	1	Jet, Main				
5	146±0589	1	Kit, Choke Pulloff (Includes Piston Rod, Link Washer, Snap Pin and Breaker)				
6	146±0588	1	Kit, Choke Bimetal (Includes Holder, Thermostat Cover, Set Plate and Case Set Screw)				
6	146±0592	1	Kit, Choke Shaft (Includes Choke Shaft, Collar, Arm Return Spring, Valve, Set Screw and Lever)	9	146±0586	1	Kit, Conversion Enhancement (See Page 71)

## Carburetor Components (LP Liquid and Vapor)



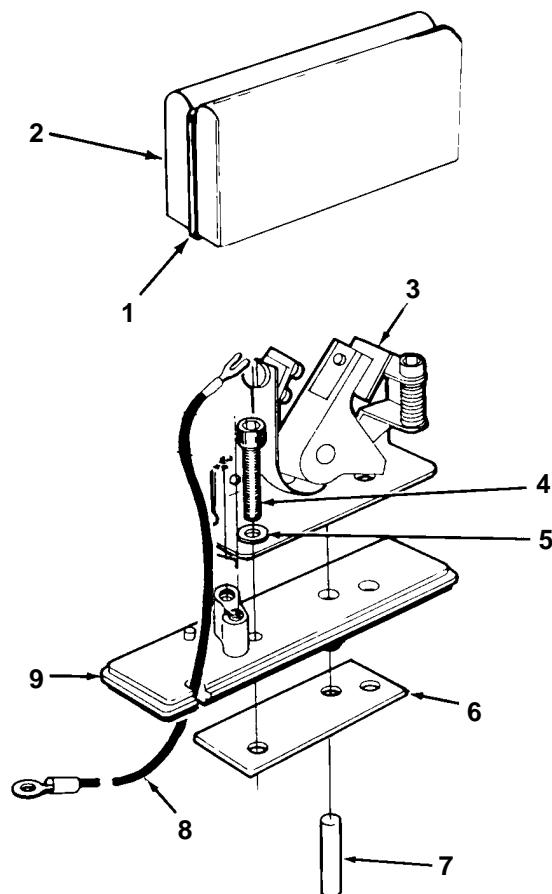
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Carburetor, Complete	8	141±0919	1	Plate, Throttle
	141±0932	1	Spec A±J	9	141±0711	1	Spring, Throttle Stop
	146±0723	1	Spec K & Up (LPG Liquid)	10	141±0700	1	Screw, Throttle Stop
	146±0727	1	Spec K & Up (LPG Vapor)	11	141±0937	1	Needle, Idle Adjust
1	141±0736	1	Plug, Bowl	12	141±0935	1	Spring, Idle Needle
2	141±0077	1	Washer, Bowl Plug	13	141±0934	1	Screw, Main Jet ± Adjust
3	141±0708	1	Bowl, Fuel	14	141±0939	1	Spring, Main Jet Screw
4	141±0701	1	Gasket, Bowl	15			Tube, Idle (Rubber)
5	141±0936	1	Lever, Throttle Shaft		141±0938	1	Spec A±J
6	141±0924	1	Seal, Rubber ± Dust		141±0978	1	Begin Spec K
7	141±0906	2	Screw, Round Head with Washer	16	141±0940	2	Seal, Dust

## Ignition System (Spec A)



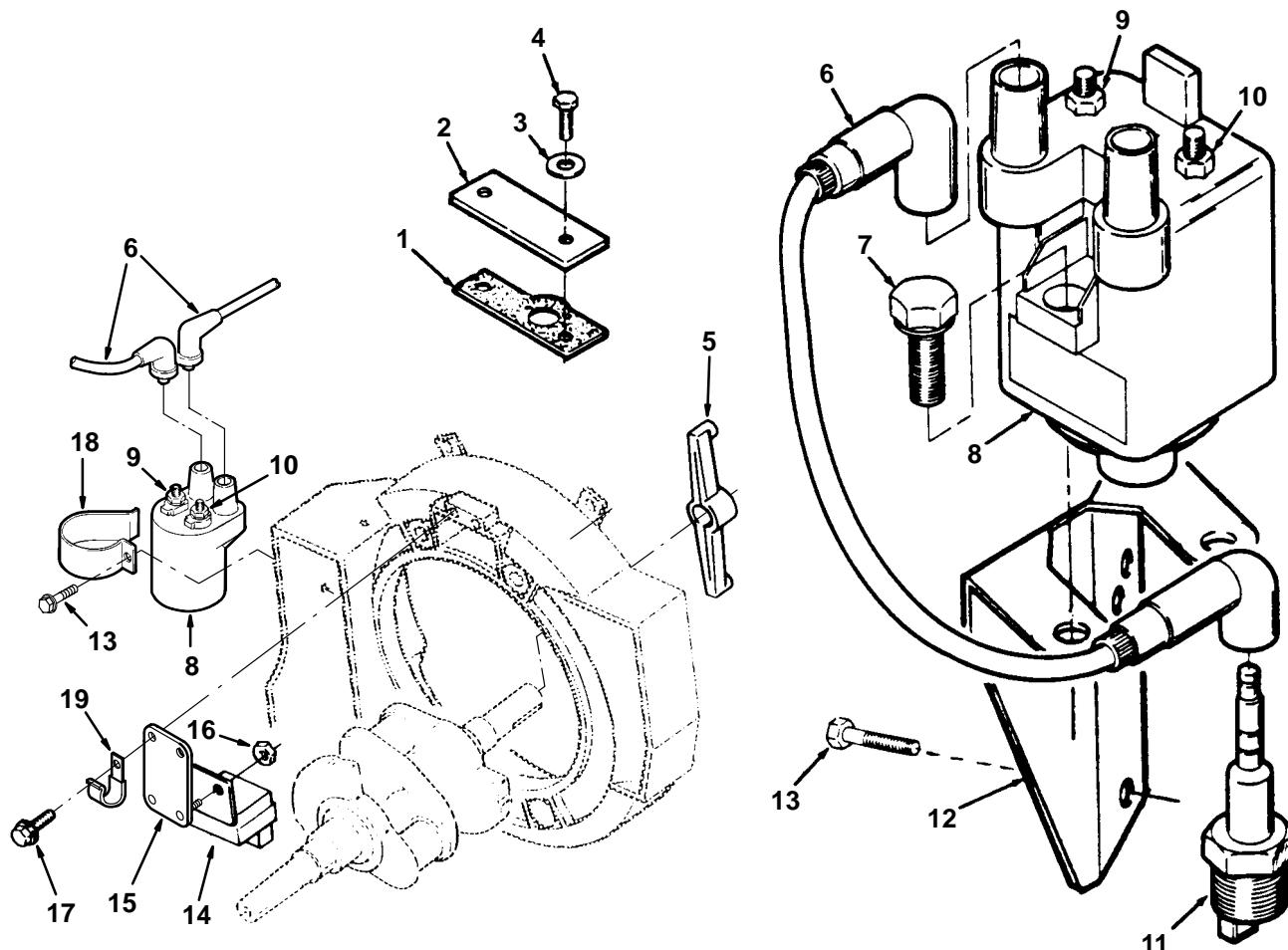
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	166±0772	1	Coil, Ignition (T1) (Includes Nuts and Washers)	6	167±0272	2	Plug, Spark (E3, E4)
2	166±0747	1	Clamp, Coil	7	167±1615±01	1	Cable, Spark Plug
3	815±0261	1	Screw, Hex Washer Head Thread Cutting (1/4±20 x 1/2 <sup>0</sup> )	167±1602		1	9 <sup>0</sup> Long
4	166±0771	2	Nut, Hex (8MM)	160±1325		1	27 <sup>0</sup> Long
5	850±2005	2	Washer, Lock (8MM)				Box Assy, Breaker (See Separate Page for Components)

## Breaker Box (Spec A)



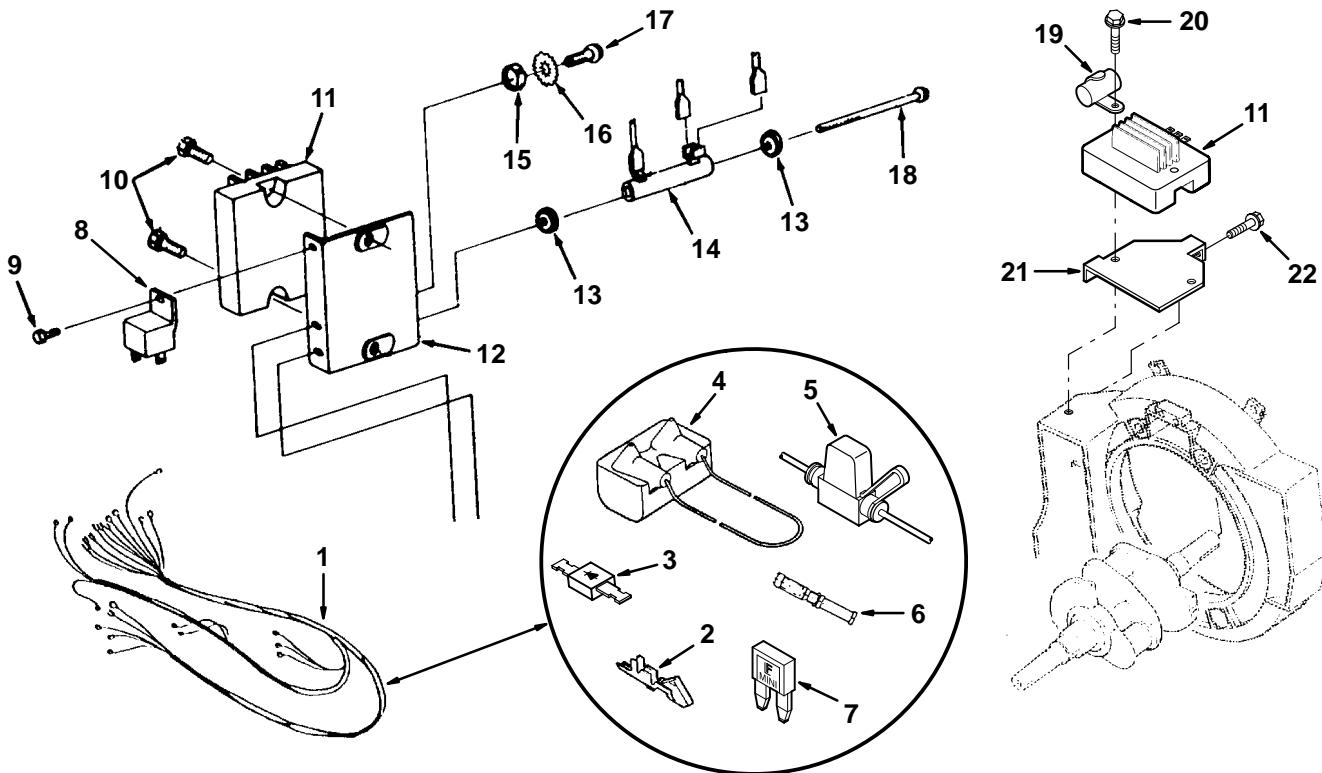
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	160±1325	1	Box, Breaker (Includes Parts Marked *)	6	160±1368	1	*Gasket, Breaker Box
1	160±1317	1	*Clip, Breaker Box Cover	7	160±1151	1	Plunger, Breaker Points
2	160±1316	1	*Cover, Breaker Box	8	336±2378	1	Lead, Breaker Box To Coil
3	160±1183	1	*Point, Breaker	9	160±1314	1	*Base, Breaker Box
4	802±0034	2	*Screw, Socket Head Cap (1/4±20 x 3/4°)				* ± Parts Included in Breaker Box.
5	850±0038	2	*Washer, Spring Lock (1/4°)				

## Ignition System ± Electronic (Begin Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	160±1368	1	Gasket, Plate	10	166±0770	1	Nut, Hex Flange (M4 Positive Terminal)
2	160±1345±01	1	Plate, Ignition Plunger Cover	11	167±0272	2	Plug, Spark (E3, E4)
3	740±1004	2	Washer, Flat (M6)	12	166±0789±01	1	Bracket, Ignition Coil Spec B thru Serial Number G923938483 During Spec F
4	800±0004	2	Screw, Hex Head Cap (1/4±20 x 5/8 <sup>0</sup> )	13	815±0290	1	Screw, Hex Washer Head Thread Forming (1/4±20 x 5/8 <sup>0</sup> )
5	166±0842	1	Rotor Assembly, Ignition (Includes Rotor and Magnet)	14	166±0821	1	Control, Ignition (S3) 15 <sup>0</sup> Leads ± Gasoline Fueled
6	167±1615±01	1	Cable, Spark Plug 9 <sup>0</sup> ± Spec A±G		166±0821±01	1	28.5 <sup>0</sup> Leads ± LP Fueled
	167±1615±06	1	26 <sup>0</sup> ± Spec G	15	166±0793	1	Bracket, Ignition Control
	167±1602	1	27 <sup>0</sup> ± Spec A±F	16	870±0328	2	Nut, Self±Lock (10±32)
7	815±0650	2	Screw, Hex Washer Head (1/4±20 x 1 <sup>0</sup> )	17	815±0770	2	Screw, Hex Washer Head Thread Forming (10±32 x 1/2 <sup>0</sup> )
8			Coil, Ignition (T1) (Includes Nuts)	18	166±0747	1	Clamp, Coil (Begin Serial Number G923938484 During Spec F)
	166±0761	1	Spec B thru Serial Number G923938483 During Spec F	19	332±3198	1	Connector
	166±0820	1	Begin Serial Number G923938484 During Spec F				
9	166±0771	1	Nut, Hex Flange (M5 Negative Terminal)				

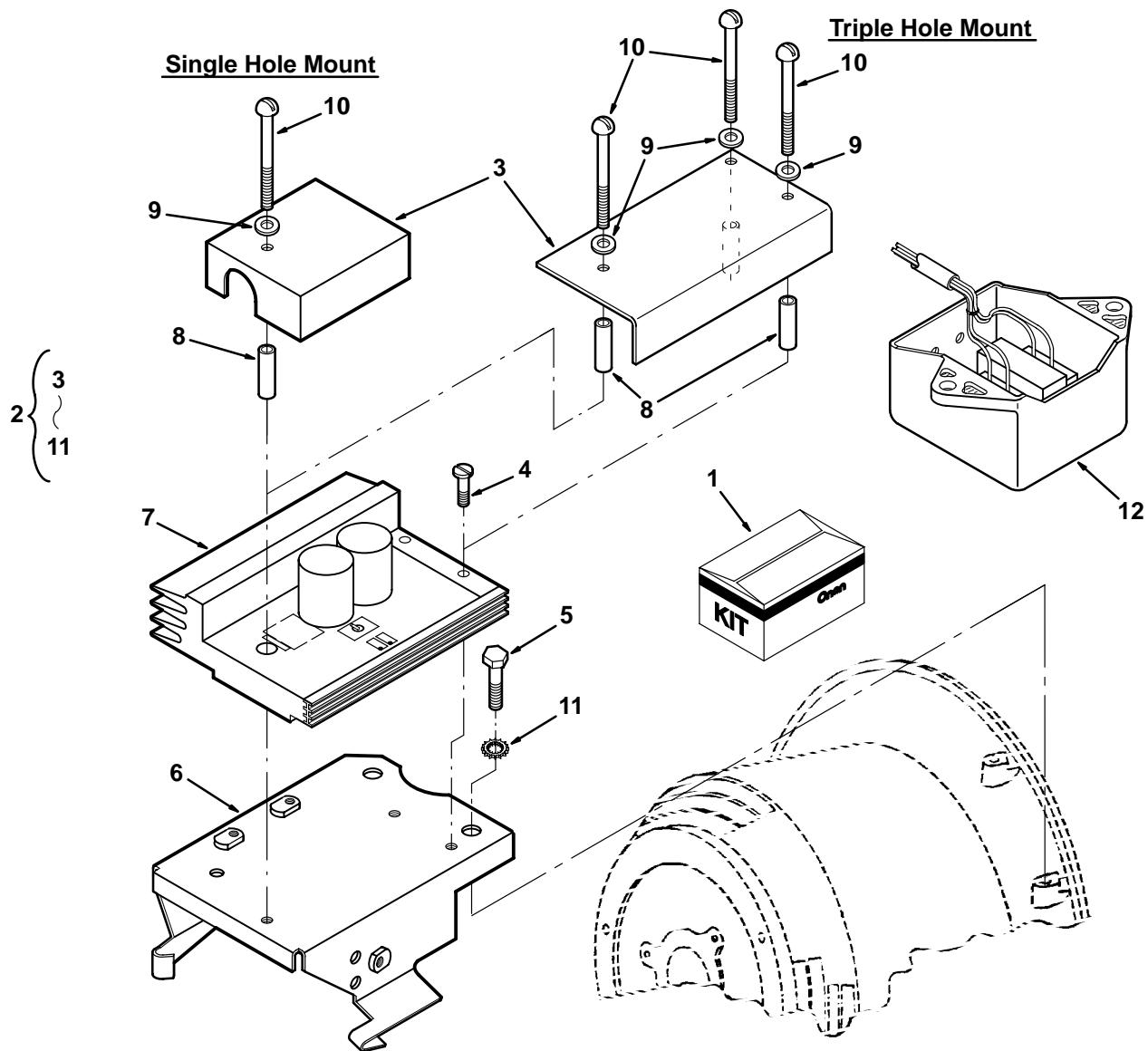
## Battery Charger (Spec A±H)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Battery Charge (Includes Parts Marked *) Spec A,B	11	305±0784	1	Charger, Battery (Spec A±F & H)
338±2318±01	1	1	Gasoline	12	305±0784	1	Bracket, Battery Regulator Mounting
338±2318±02	1	1	LP	319±0310±02	1	Spec A±E	
			Spec C	319±1598±02	1	Spec F, Volt Code FA	
338±2643±01	1	1	Gasoline	13	304±0796	2	Washer, Center ± Volt Code FD
338±2643±02	1	1	LP	14	304±0798	1	Resistor, Fuel Pump ± Volt Code FD
			Spec D,E	15			Washer, Lock (#10)
338±2776±01	1	1	Gasoline	850±0030	1		Volt Code FD
338±2776±02	1	1	LP	850±0030	2		Volt Code FB, FN
			Spec F	16	856±0003	1	Washer, EIT Lock (#10)
338±2820	1	1	Gasoline	17			Screw, Pan Head (Special)
338±2816	1	1	LP	815±0661	1		Volt Code FD
338±2917	1	1	Spec G, H	815±0661	2		Volt Code FB, FN
2	323±1302	3	*Pin, Contact	18	815±0712	1	Screw, Pan Head (Special)
3	357±0067	1	*Rectifier (CR6)	19	312±0256	1	Volt Code FD
4	320±1658	1	*Breaker, Circuit ± 40 Ampere, 6, 12, 24 Volt (CB4)	20	815±0793±07	2	Condenser, Ignition (Spec A±F & H)
5			*Holder, Fuse	21	416±0989±02	1	Screw, Hex Flange Head (M5 x 30mm) (Spec H)
	321±0322±02	1	Spec F	22	815±0770	1	Tray, Mounting (Spec H)
	321±0322±03	1	Spec G				Screw, Hex Washer Head
6	323±1486	3	*Socket, Contact				Thread Forming (#10±32 x 1/2")
7	321±0321±06	1	*Fuse, 10 Amp (F2) (Begin F)				
8	307±1886	2	*Relay, Ignition (K5, K6)				
9	821±0004	1	Screw, Flange Lock Head (10±32 x 5/16")				
10	821±0012	2	Screw, Flange Lock Head (1/4±20 x 1±1/8")				

\* ± Parts Included in Battery Charge Wiring Harness.

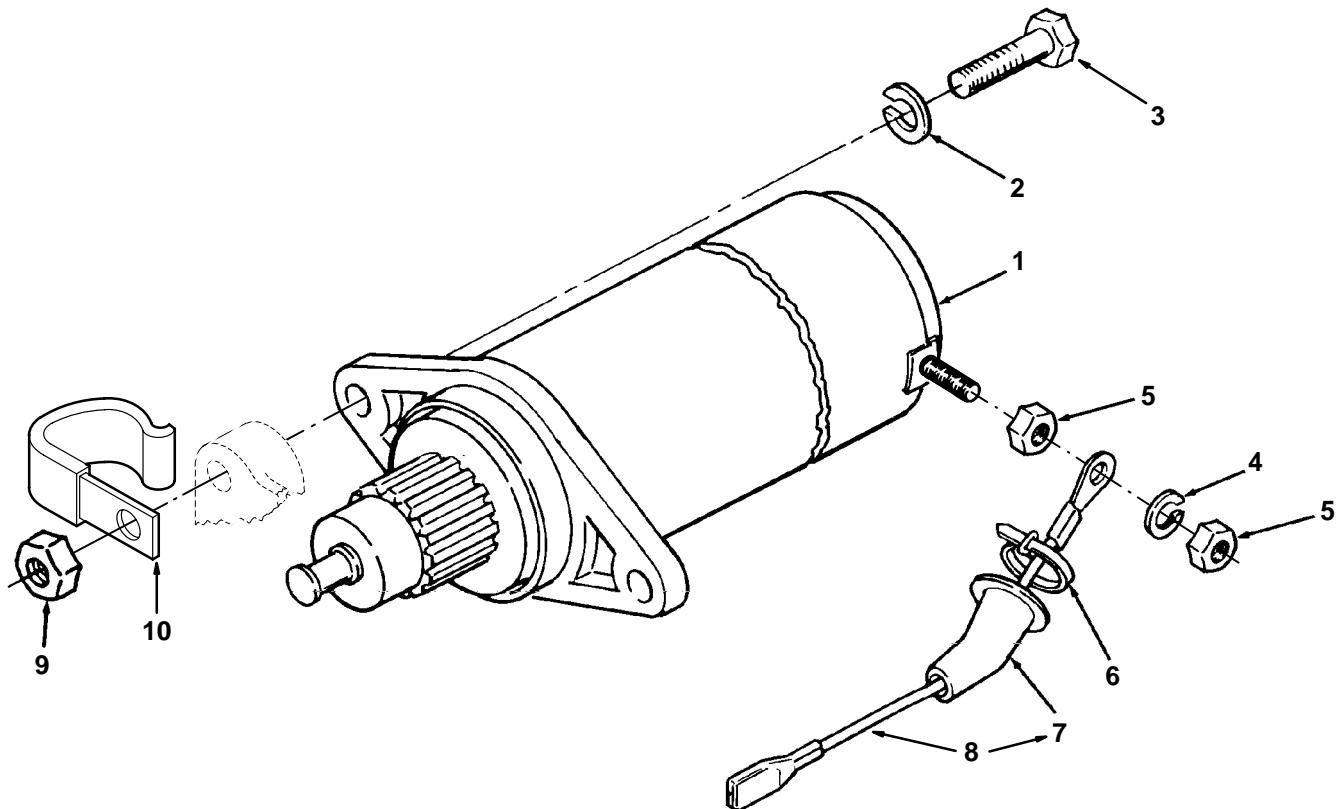
## Voltage Regulator Stator Mount



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305±0883	1	Kit, Voltage Regulator Conversion (SR1900) (Includes 305±0881)	8	370±4086	1	*Standoff Single Hole Mount
2	305±0881	1	Assembly, Voltage Regulator (Includes Parts Marked *)	9	370±4086	3	Triple Hole Mount
3	305±0879±02	1	*Cover Single Hole Mount	526±0008	1	*Washer, Flat (7/16") Single Hole Mount	
	305±0945±02	1	Triple Hole Mount	526±0008	3	Triple Hole Mount	
4	815±0691±01	2	*Screw, Thread Forming Pan Head (#10±32 x 3/8") (Single Hole Mount Only)	10	813±0114	1	*Screw, Round Head Machine (#10±32 x 2±1/2") Single Hole Mount
	815±0290	2	*Screw, Thread Forming Hex Head (1/4±20 x 5/8")	813±0114	3	Triple Hole Mount	
6	315±0792±03	1	*Bracket, Mounting	11	856±0006	2	*Washer, EIT (1/4")
7	305±0875±04	1	*Regulator, Voltage (Begin Spec G) (Volt Code FD, FT) (3 Phase)	12	315±0754	1	Transformer Assembly (Used With 305±0875±04 Voltage Regulator)

\* ± Parts included in Voltage Regulator Assembly.

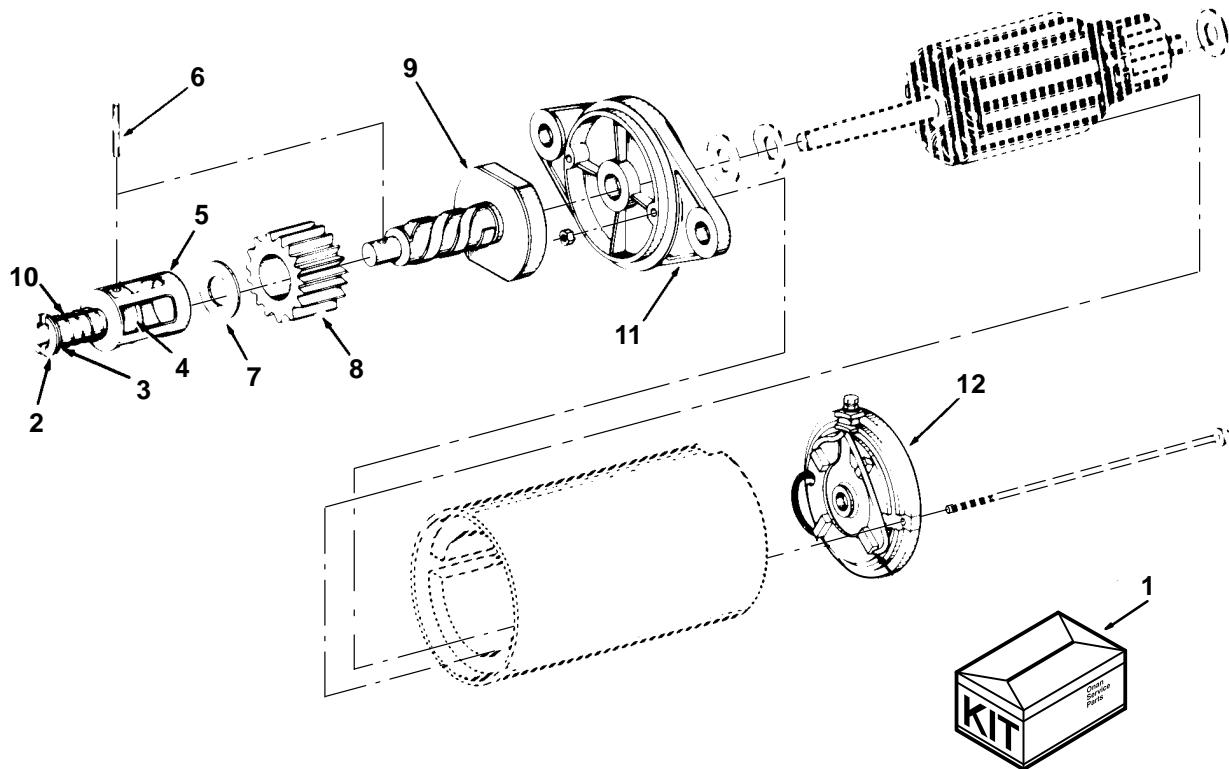
## Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191±1630	1	Starter (B1) Spec A±G (See Separate Page for Components)	5	862±0001	2	Nut, Hex (1/4±20)
	191±2122	1	* Spec (Spec H Only)	6	332±0942	1	Tie, Cable
	191±1949±09	1	Begin Spec J	7	122±0345	1	Tube
2			Washer, Lock (3/8°)	8	226±3457	1	Lead, Starter (Includes Tube)
	850±0050	2	Spec A±H	9			Nut, Hex (3/8±16)
	850±0114±07	2	Begin Spec J	862±0003	2	Spec A±H	
3			Screw, Hex Head Cap (Special)	862±0041	2	Begin Spec J	
	800±0052	2	Spec A±H	10	332±3359	1	Clip, Harness
	800±0312	2	Begin Spec J				
4	850±0040	1	Washer, Lock (1/4°)				

\* ± Components not Available at Time of Print.

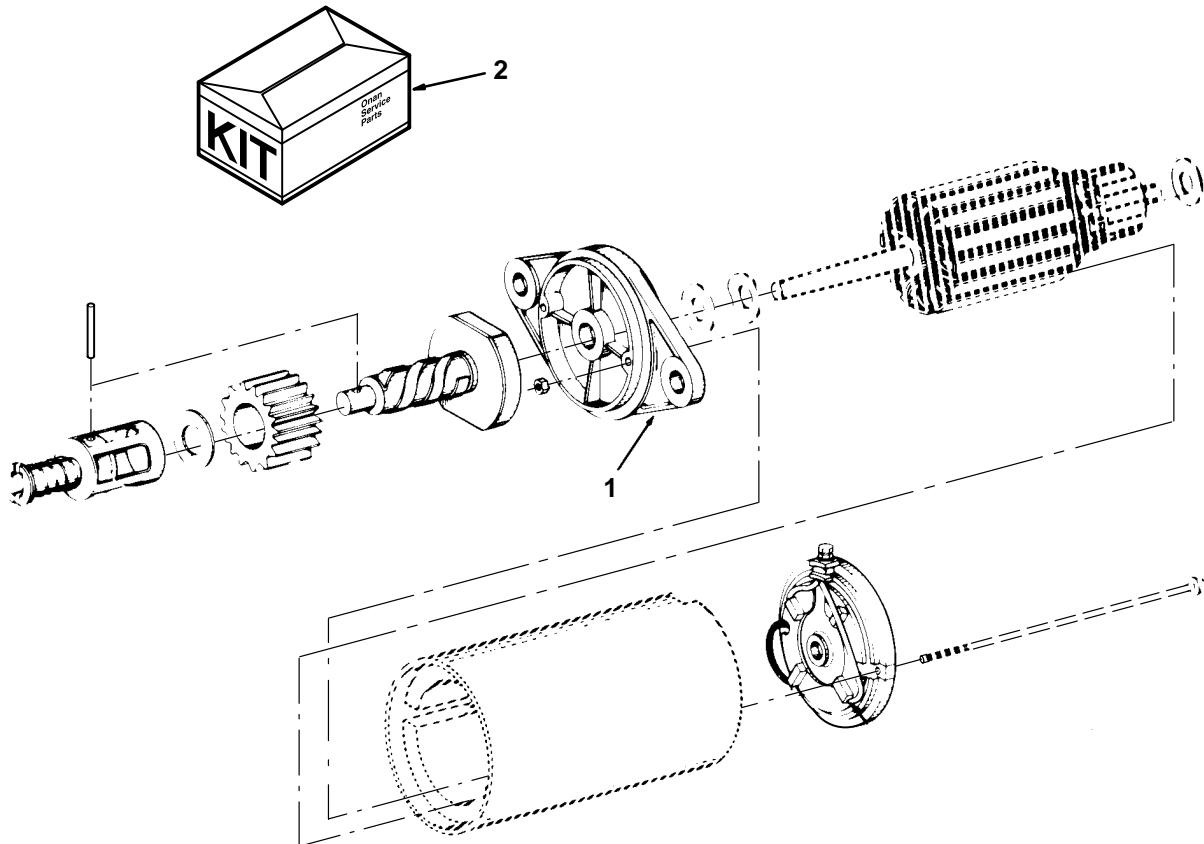
**Starter Components  
For Starter  $\pm 191\pm 1630$  (B1)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191±2129	1	Kit, Starter Drive (Includes Parts Marked *)	8	191±1819	1	*Gear, Starter
2	191±1821	1	*Retainer, Spring	9	191±1784	1	*Clutch and Spline
3	191±1822	1	*Washer, Pinion	10	191±1820	1	*Spring, Pinion
4	191±1818	1	*Retainer, Clutch	11	191±1776	1	Cap, Drive End
5	191±1817	1	*Cover, Spring	12	191±1781	1	Cap, End
6	191±1786	1	*Pin, Roll				
7	191±1785	1	*Washer, Drive				

\* ± Parts Included in Starter

**Starter Components**  
**For Starters ± 191±2132 & 191±2158**



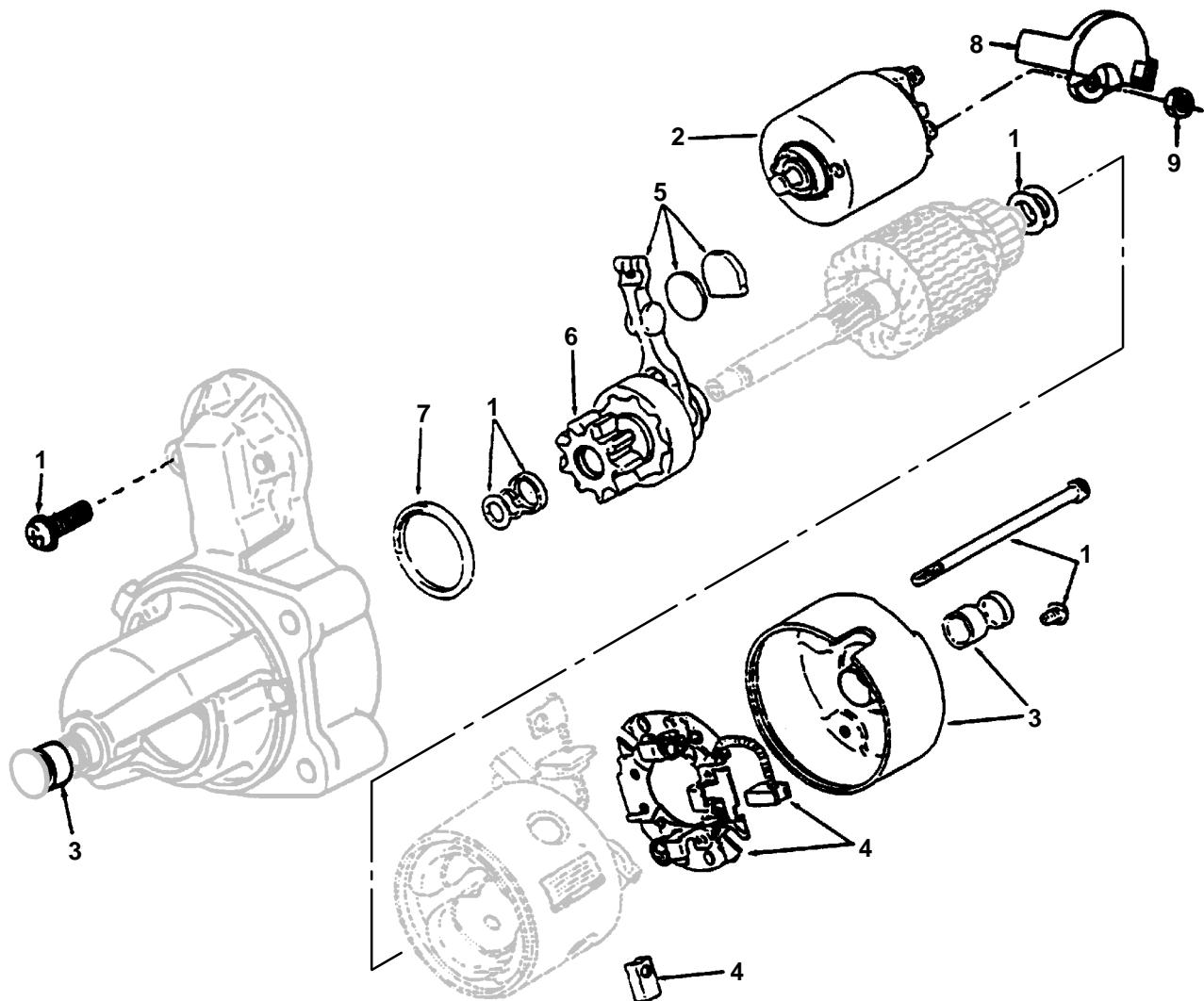
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191±2186	1	Cap, Drive
2	191±2187	1	Kit Assembly, Drive (Includes Washers, Retainers, Spring, Cover, Roll Pin, Pinion Gear, and Drive Clutch)

**#Starter Components  
For Starter ± 191±2122**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191±1359	1	Service Package, Starter (Includes Parts Marked *)
	191±1034	1	*Cover, Dust
	191±1035	1	*Spring, Anti Drift
	191±1045	1	*Nut, Stop
	191±1046	1	*Washer, Stop Nut
	191±1047	1	*Spacer, Dust Cover
2	191±2198±02	1	Drive Pinion Assembly
3	191±1156	1	Drive Assembly

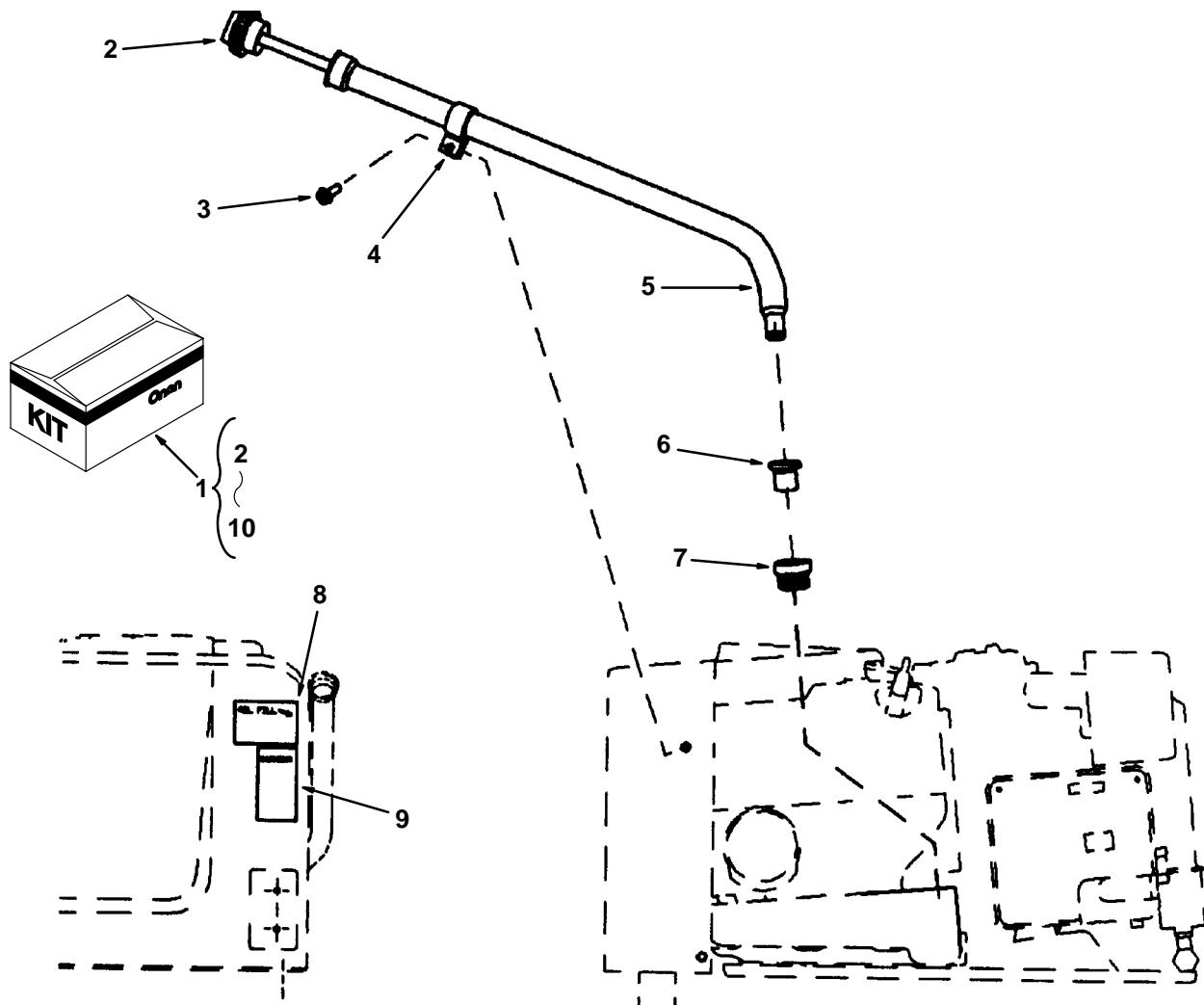
# ± Illustration Not Available At Time Of Printing.

**Starter Components**  
**For Starter  $\pm 191\pm1949\pm09$**



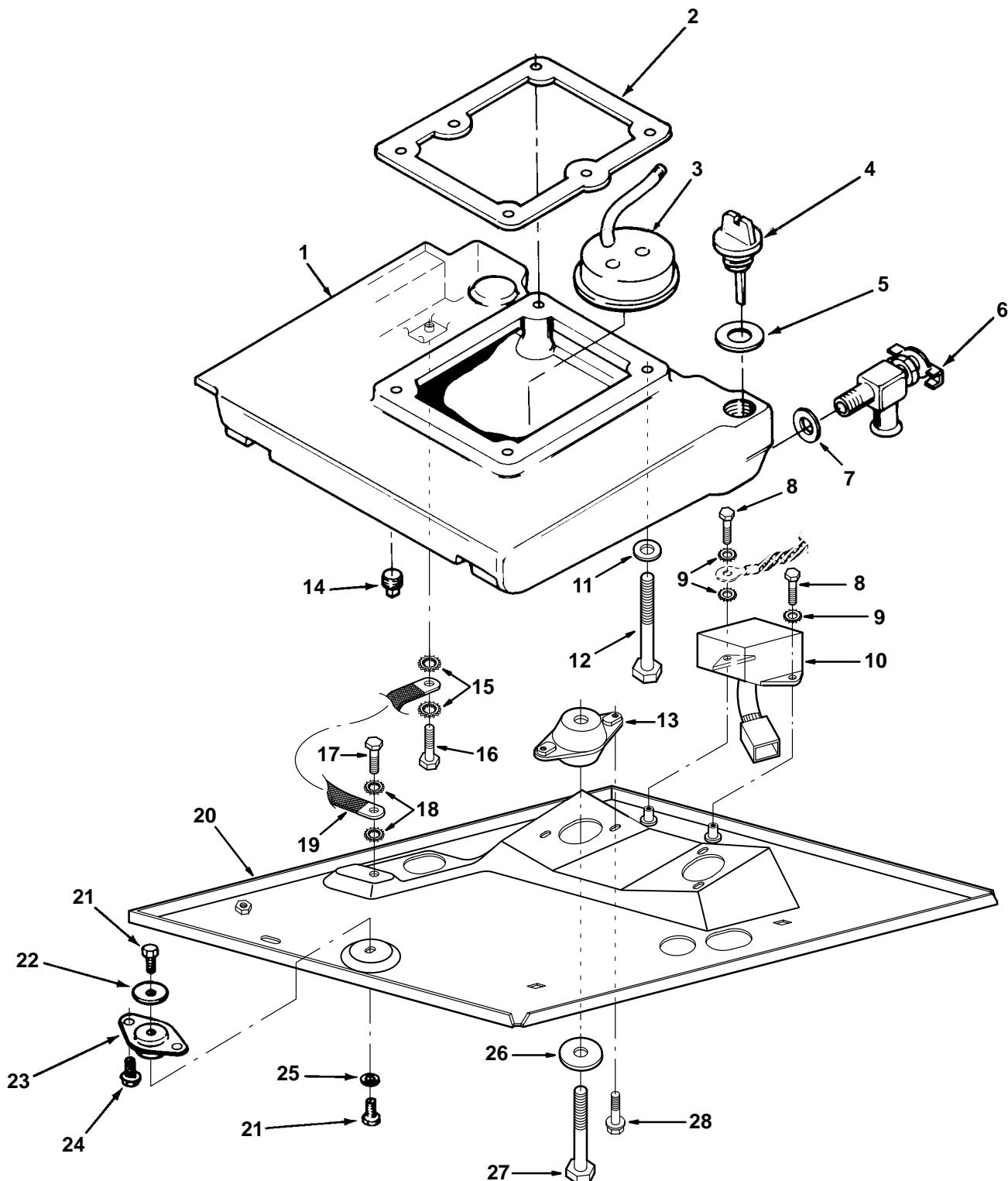
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191±1954	1	Kit, Hardware (Includes Two Solenoid Mounting Screws, Two Thru Bolts, Armature Shims, Pinion Stop Collar, Retaining Ring & Solenoid Terminal Nuts)	5	191±1766	1	Kit, Shift Lever (Includes Lever, Wear Plate, Rubber Plug and Grease)
2	191±1956	1	Kit, Solenoid (Includes Solenoid & Spring Plunger)	6	191±1953	1	Kit, Drive (Includes Pinion Gear and Drive Assembly)
3	191±1931	1	Kit, Bushing (Includes Rear Cap With Bushing & Front Bushing)	7	191±1955	1	Kit, Dust Seal (Includes ID & OD Pinion Seals)
4	191±1951	1	Kit, Brush (Includes Two Negative and Two Positive Brushes & Brush Holder)	8	191±1947	1	Cap, Solenoid
				9	750±1006	1	Nut, Hex Grounding (M8)
				10	191±2199±01	1	Solenoid (Not Shown)
				11	191±2199±02	1	Kit, Brush Holder Assembly (Not Shown)

## Oil Fill Tube



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	541±0456	1	Kit, Oil Fill Tube (Includes All Parts Listed on This Page)	6	509±0269	1	Seal, Oil Fill Tube
2	123±2000	1	Indicator & Cap Assembly	7	123±2001	1	Adapter, Assembly
3	815±0261	1	Screw (1/4±20 x 1/2)	8	98±6618±01	1	Label, Oil Capacity
4	332±3213	1	Clamp, Coated	9	98±5755	1	Label, Warning
5	123±1997±50	1	Tube, Oil Fill	10	G±189	1	Sheet, Instruction (Not Shown)

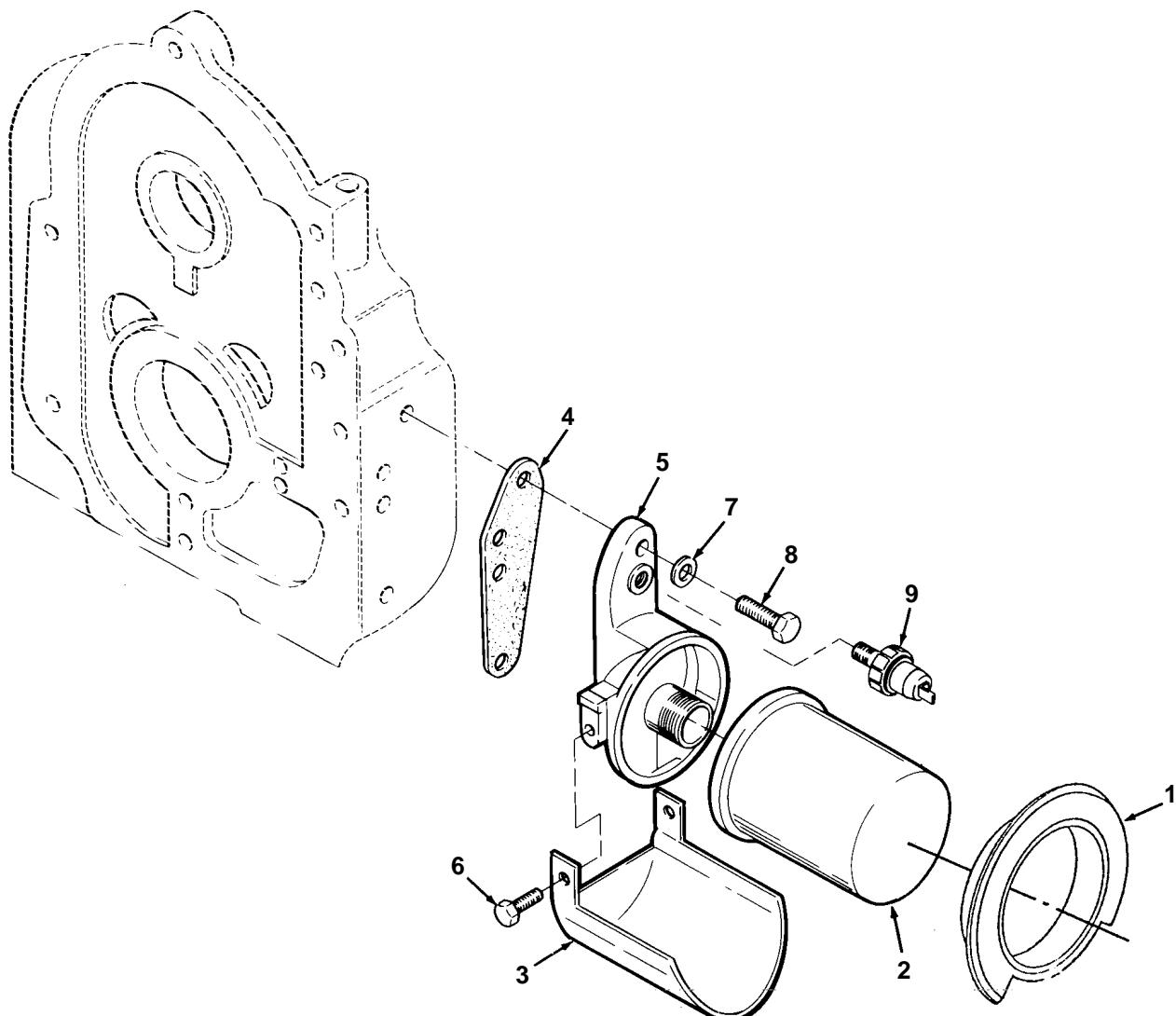
## Oil Base



## Oil Base

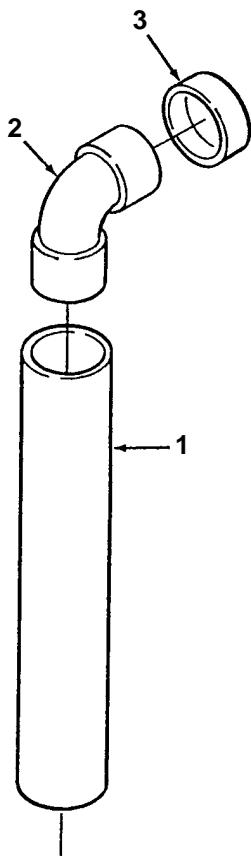
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102±1286	1	Base, 3.5 Quart Oil	14	505±0266	1	Plug, Oil Drain (3/8±16 x 3 <sup>0</sup> )
2	102±1387	1	Gasket, Oil Base	15	856±0010	2	Washer, EIT
3	123±1616	1	Cup, Oil Pump Intake	16	800±0048	1	Screw (3/8±16 x 3/4 <sup>0</sup> )
4	123±1961	1	Cap, Oil Fill	17	815±0236	1	Screw, Thread Cutting (5/16±18 x 5/8 <sup>0</sup> )
5	509±0096	1	O±Ring, Oil Fill Cap	18	856±0008	2	Washer, EIT
6	504±0150	1	Valve, Oil Base Shutoff	19	337±2311	1	Strap, Bond
7	102±0743	1	Gasket, Oil Drain Plug	20		1	Pan, Drip Spec A±H
8	800±0004	2	Screw, Hex Head Cap (1/4±20 x 5/8 <sup>0</sup> )	21	403±2218±01	1	Begin Spec J
9	853±0013	3	Washer, ET		403±2218±02	1	Screw, Self±Lock Hex
10			Regulator, Voltage (VR1) (Spec J Only) (Transformer)	21	821±0031	2	Washer Head (3/8±16 x 3/4 <sup>0</sup> )
	305±0911	1	Volt Code FB	22	526±0324	1	Washer, Flat (5/16 <sup>0</sup> Screw)
	305±0922	1	Volt Code FN	23	402±0549	1	Isolator, Engine End Vibration
	315±0754	1	Volt Code FC, FD, FT (3 Phase)	24	821±0016	2	Screw, Self±Lock Hex Washer Head (5/16±18 x 3/4 <sup>0</sup> )
11	526±0251	4	Washer, Flat (3/8 <sup>0</sup> Screw)	25	526±0014	1	Washer, Flat (3/8 <sup>0</sup> Screw)
12	800±0058	4	Screw, Hex Head Cap	26	526±0325	2	Washer, Flat (3/8 <sup>0</sup> Screw)
13			Isolator, Generator End Vibration	27	815±0598	2	Screw, Hex Head Thread Form (3/8±16 x 2.5 <sup>0</sup> )
	402±0547	2	Spec A,B Top Half	28	821±0010	4	Screw, Self±Lock Hex Washer Head (1/4±20 x 1/2 <sup>0</sup> )
	402±0597	2	Bottom Half				
	402±0602	2	Begin Spec C				

## Oil Filter



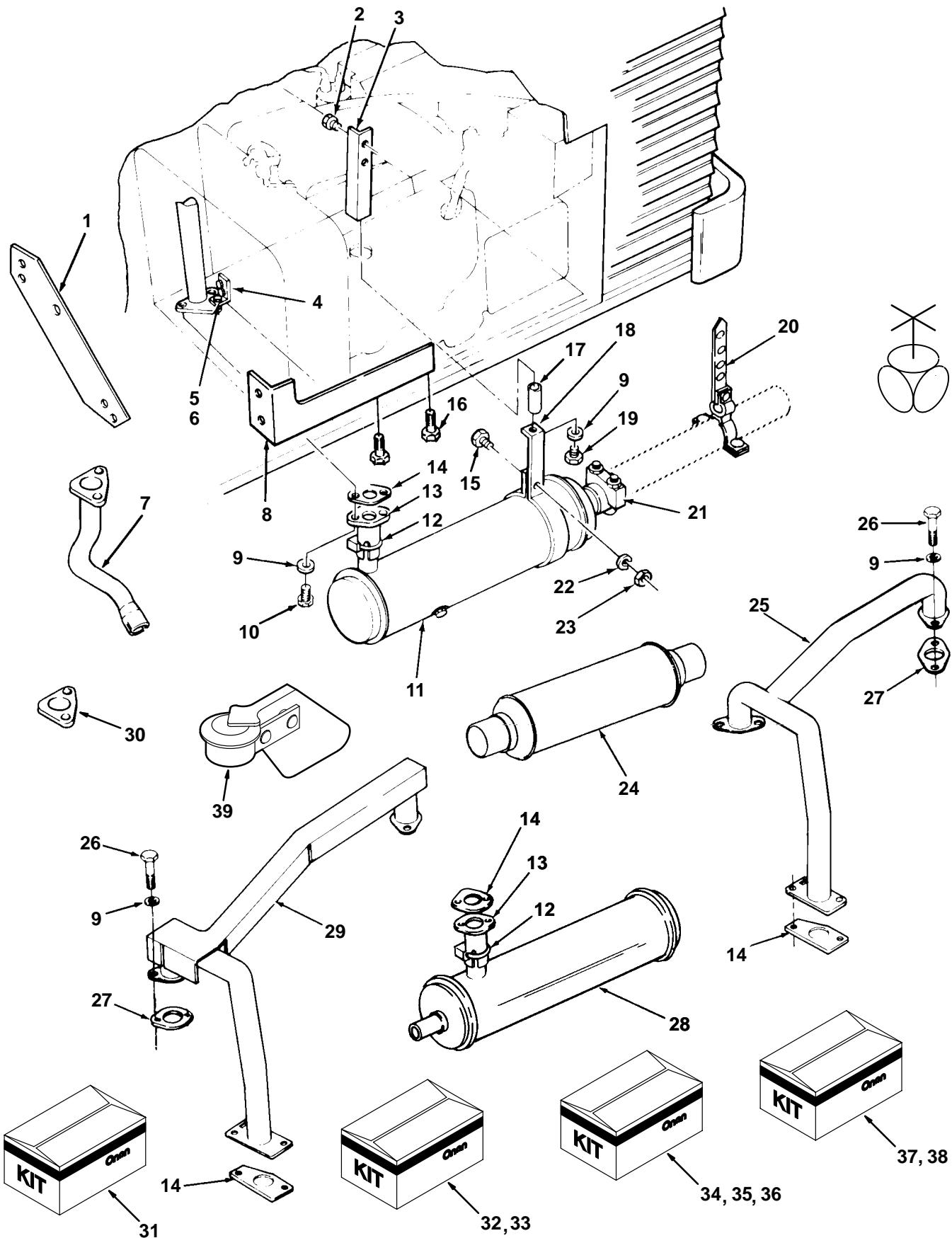
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122±0502	1	Gasket, Oil Filter	7	526±0065	2	Washer, Copper Flat (5/16° Screw)
2	122±0645	1	Filter, Oil	8	800±0028	2	Screw, Hex Head Cap (5/16±18 x 1°)
3	122±0360±50	1	Drain, Oil Filter	9	309±0322	1	Switch, Low Oil Pressure (S2)
4	122±0771	1	Gasket, Oil Filter Adapter				
5	122±0814	1	Adapter, Oil Filter (Includes Oil Filter Drain Screws)				
6	815±0340	2	Screw, Hex Washer Head Cap (#10±32 x 3/8°)				

## Breather Tube Bypass (Cold Weather Use)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503±1551	1	Tube, Breather
2	502±1026	1	Elbow, 90°
3	517±0260	1	Plug, Cap

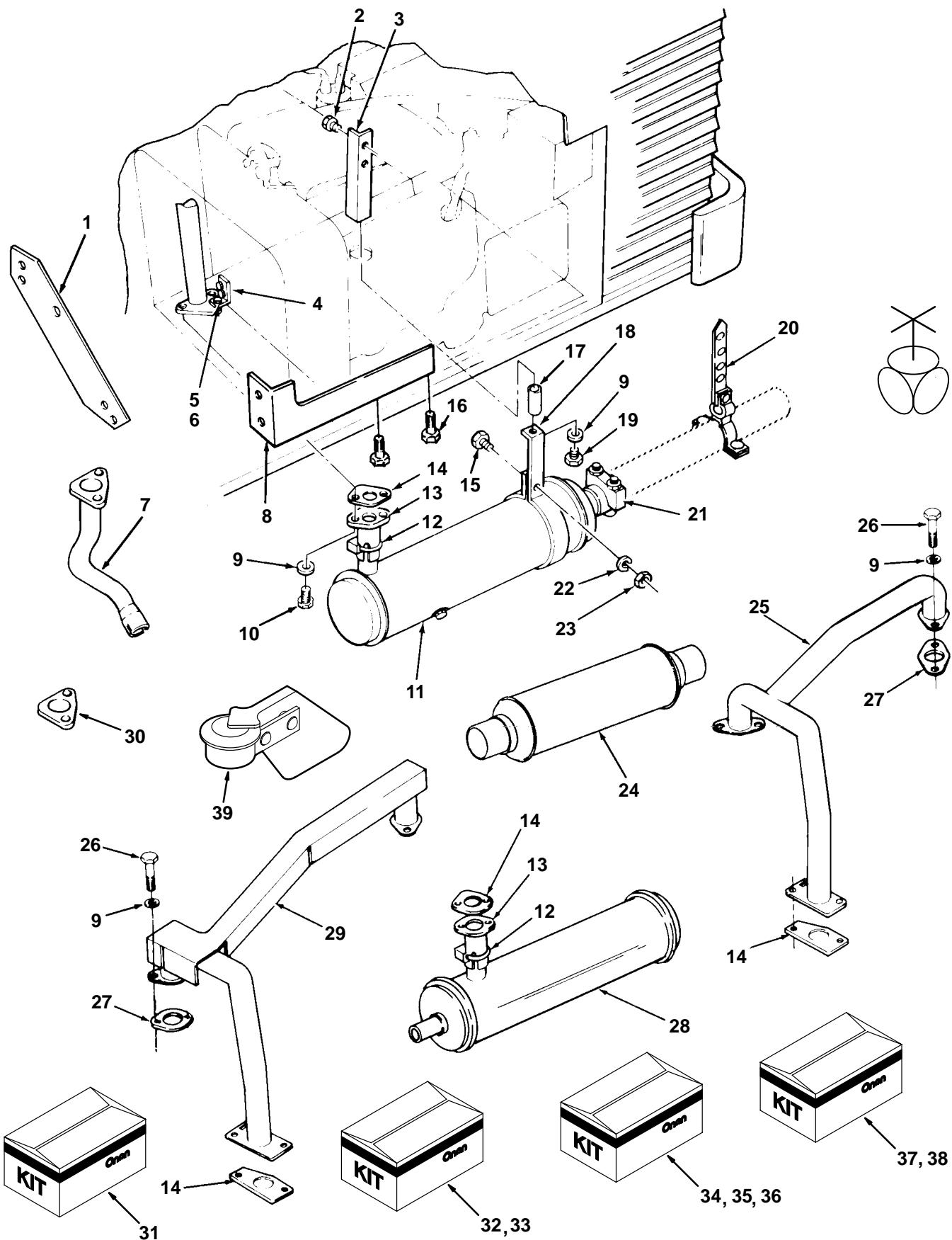
## Exhaust System



## Exhaust System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154±2663	1	Bracket, Exhaust (Use With 154±2662 Tube)	26	800±0026	4	Screw, Hex Head Cap (5/16±18 x 3/4°)
2			Screw, Hex Washer Head Thread Forming	27	154±2746	2	Gasket, Exhaust Manifold
	815±0499	2	Spec A (1/4±20 x 5/8°)	28	155±1485	1	Muffler, Side Outlet ± End Outlet Near Inlet with Spark Arrestor
	815±0290	2	Begin Spec B (1/4±20 x 5/8°)	29	154±2627	1	Manifold, LP Liquid Exhaust
3	155±2026±02	1	Strap, Muffler (Spec A±H)	30	154±2537	1	Flange, Exhaust Manifold
4			Bracket, Exhaust Manifold 155±2036	31			Kit, Exhaust Accessory (See Last 2 Pages for Components)
	154±2538	1	LP Liquid (1.97° Long) Gasoline & LP Vapor (2.31° Long)	542±0331		1	Spec B±F
5	800±0005	1	Screw, Hex Head Cap (1/4±20 x 3/4°)	542±0496		1	Spec A±D
6	526±0018	1	Washer, Flat (1/4° Screw)	542±0494		1	Spec J and Up
7			Tube, Exhaust	32			Kit, Vertical Exhaust (All Specs)
	154±2662	1	Spec A±L (11° Long) (Use With 154±2663 Bracket)	542±0343		1	(Includes Parts Marked *)
	154±3069	1	Begin Spec M	542±0498		1	(Includes Parts Marked #)
8	155±2049±02	1	Bracket, Exhaust	154±2854±01		1	*Elbow, 90 Degree Exhaust
9	740±1006	7	Washer, Flat (M8)	154±2542		1	##*Gasket, Exhaust Manifold
10	800±0730	2	Screw, Hex Head Cap (5/16±18 x 1°)	800±0030		4	##*Screw, Hex Head Cap (5/16±18 x 1±1/4°)
11			Muffler, Side Inlet ± End Outlet 155±1258	850±0045		2	##*Washer, Lock (5/16)
	155±2588	1	With Spark Arrestor Without Spark Arrestor	155±1015		1	*Clamp, Muffler
12	155±1239	1	Clamp, Muffler	155±1258		1	*Muffler
13			Adapter, Exhaust (Flange Type)	155±2429±03		1	##*Arrester, Spark
	154±2540	1	4±1/4° Long	815±0439		1	##*Screw, Hex Washer Head Self± Drill (#8 x 1/2°)
	154±2683	1	6±1/4° Long	155±2986±02		1	*Tailpipe, Muffler
	154±2718	1	8° Long	155±2993±02		1	##*Bracket, Exhaust
14	154±2542	1	Gasket, Exhaust	800±0004		2	##*Screw, Hex Head Cap (1/4±20 x 5/8°)
15	800±0007	1	Screw, Hex Head Cap (1/4±20 x 1°)	870±0048		4	##*Nut, Lock (5/16±18)
16	821±0029	2	Screw, Hex Washer Head ± Self±Lock (3/8±16 x 3/4°)	800±0025		2	##*Screw, Hex Head Cap (5/16±18 x 5/8°)
17	370±4027	1	Spacer, Muffler ± 2° Long (Used Only On RVs With 6±1/4° Long Exhaust Adapter)	155±2994±02		2	##*Strap, Muffler
18			Strap, Muffler	155±2989±02		1	##*Bracket, Support G±277
	155±2025±02	1	4.31 ID ± 5.77° Long	33			##*Sheet, Instruction
	155±2589	1	5.03 ID ± 8.65° Long ± Use with Muffler w/o Spark Arrestor	542±0334		1	Kit, Vertical Exhaust (All Specs)
19			Screw, Hex Head Cap 800±0026	542±0341		1	Includes Parts Marked ~
			Use Without Spacer (5/16±18 x 3/4°)	154±2980		1	Includes Parts Marked @)
	800±0036	1	Use With Spacer (5/16±18 x 2±3/4°)	154±2983		1	~Exhaust Assembly
20	155±2174	1	Hanger, Exhaust	154±2983		1	@Exhaust Assembly
21	155±1015	1	Clamp, Muffler	155±1256		1	@~Clamp, Muffler
22	740±1004	1	Washer, Flat (M6)	821±0016		1	~Screw, Lock Head Flange (5/16±18 x 3/4°)
23	870±0212	1	Nut, Self±Lock (1/4±20)	821±0018		1	@ Screw, Lock Head Flange (1/4±20 x 5/8°)
24	155±2449	1	Resonator, Exhaust ± Gasoline Only	154±2542		1	@~Gasket, Exhaust Manifold
25	154±2551	1	Manifold, Exhaust Gasoline & LP Vapor	154±2539		1	@~Tube, Exhaust
				155±2164		1	~Muffler, Spark Arrester
				155±2085		1	@ Muffler, Spark Arrester
				800±0730		2	@~Screw, Hex Head Crescent Cap (5/16±18 x 1°)
				850±0045		2	@~Washer, Lock (5/16)
				800±0004		2	@~Screw, Hex Head Cap (1/4±20 x 5/8°)
				850±0040		2	@~Washer, Lock (1/4)
				526±0130		2	@~Washer, Flat

## Exhaust System



## Exhaust System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
34	542±0265	1	Kit, Accessory (Includes Parts Marked ^)	542±0469	1	Includes Parts Marked >		
	A±0309	1	^Sheet, Instruction	542±0470	1	Includes Parts Marked `		
	155±3259	1	^Muffler, Spark Arrestor	A±0309	1	>`Sheet, Instruction		
	155±1256	1	^Clamp, Muffler	155±2085	1	>Muffler, Spark Arrestor		
	154±2542	1	^Gasket, Exhaust Manifold	155±2086	1	`Muffler, Spark Arrestor		
	154±2539	1	^Tube, Exhaust	155±1256	1	>Clamp, Muffler		
	526±0130	2	^Washer, Flat (Muffler)	154±2542	1	>Gasket, Exhaust Manifold		
	800±0004	2	^Screw, Hex Head Cap (1/4±20 x 5/8°)	154±2539	1	>Tube, Exhaust		
	800±0730	2	^Screw, Hex Head Crescent Cap (5/16±18 x 1°)	526±0130	2	>`Washer, Flat (Muffler)		
	850±0040	2	^Washer, Lock (1/4°)	800±0004	2	>`Screw, Hex Head Cap (1/4±20 x 5/8°)		
	850±0045	2	^Washer, Lock (5/16°)	800±0730	2	>`Screw, Hex Head Crescent Cap (5/16±18 x 1°)		
	332±2112	1	^Insulator, Terminal	850±0040	2	>`Washer, Lock (1/4°)		
35	542±0351	1	Kit, Accessory (Includes Parts Marked &)	850±0045	2	>`Washer, Lock (5/16°)		
	G±196	1	&Sheet, Instruction	332±2112	1	>`Insulator, Terminal		
	154±3069	1	&Tube, Exhaust	38	542±0482	Kit, RV Accessory (Includes Parts Marked =)		
	154±2542	1	&Gasket, Exhaust Manifold	A±0309	1	=Sheet, Instruction		
	155±1015	1	&Clamp, Muffler	155±2164	1	=Muffler, Spark Arrestor		
	155±1239	1	&Clamp, Muffler	155±1256	1	=Clamp, Muffler		
	155±1258	1	&Muffler, Spark Arrestor	154±2542	1	=Gasket, Exhaust Manifold		
	155±1234	1	&Hanger, Exhaust	154±2539	1	=Tube, Exhaust		
	418±0014	1	&Carton	526±0130	2	=Washer, Flat (Muffler)		
	526±0122	2	&Washer, Flat Special	800±0004	2	=Screw, Hex Head Cap (1/4±20 x 5/8°)		
	800±0730	2	&Screw	800±0730	2	=Screw, Hex Head Crescent Cap (5/16±18 x 1°)		
36			Kit, Accessory	850±0040	2	=Washer, Lock (1/4°)		
	542±0327	1	Spec A (Includes Parts Marked <)	850±0045	2	=Washer, Lock (5/16°)		
	542±0337	1	Spec J (Includes Parts Marked +)	332±2112	1	=Insulator, Terminal		
	G196	1	+<Sheet, Instruction	155±2174	1	=Hanger, Exhaust		
	800±0730	2	+<Screw, Hex Head Cap (5/16±18 x 1°)	155±1015	1	=Clamp, Muffler		
	332±2112	1	+<Insulator, Terminal	155±2040	1	Cap, Rain (Option to be Used With Kits 542±0334, 542±0341, and 542±0343) (For 1±3/8° Outside Diameter Tubing)		
	526±0122	4	+<Washer, Flat (5/16)	39	154±3003	1		
	862±0015	2	+<Nut, Hex (5/16±18)					
	800±0031	2	+<Screw, Hex Head Cap (5/16±18 x 1±1/2°)					
	155±2816±02	1	+<Strap, Muffler Mounting					
	815±0836	2	+<Screw, Hex Washer Head Thread Forming (5/16±18 x 1±1/2°)					
	155±2814±02	1	+<Bar, Muffler Support					
	154±2542	1	+<Gasket, Exhaust					
	155±1015	1	+<Clamp, Muffler					
	155±2174	1	+<Hanger, Exhaust					
	154±2540	1	+<Tube, Exhaust					
	155±1239	1	+<Clamp, Muffler					
	155±1485	1	<Muffler, Spark Arrestor					
	155±1258	1	+Muffler, Spark Arrestor					
37			Kit, RV Accessory					

\* ± Parts included in 542±0343 Vertical Exhaust Kit.

# ± Parts included in 542±0498 Vertical Exhaust Valve Kit.

~ ± Parts included in 542±0334 Vertical Exhaust Kit.

@ ± Parts included in 542±0341 Vertical Exhaust Kit.

^ ± Parts Included in 542±0265 Accessory Kit.

& ± Parts Included in 542±0351 Accessory Kit.

< ± Parts Included in 542±0327 Accessory Kit.

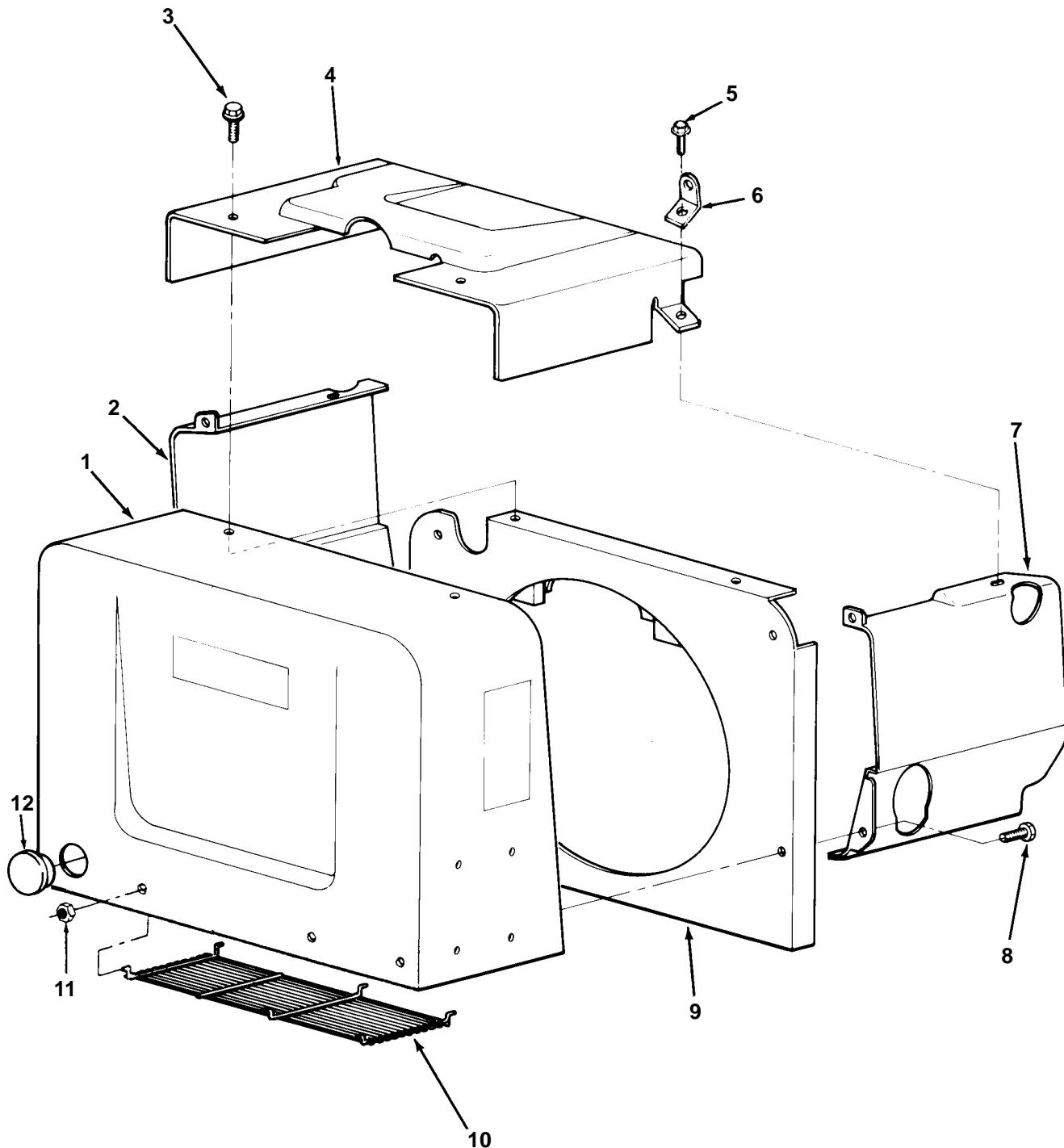
+ ± Parts Included in 542±0337 Accessory Kit.

> ± Parts Included in 542±0469 RV Accessory Kit.

` ± Parts Included in 542±0470 RV Accessory Kit.

= ± Parts Included in 542±0482 RV Accessory Kit.

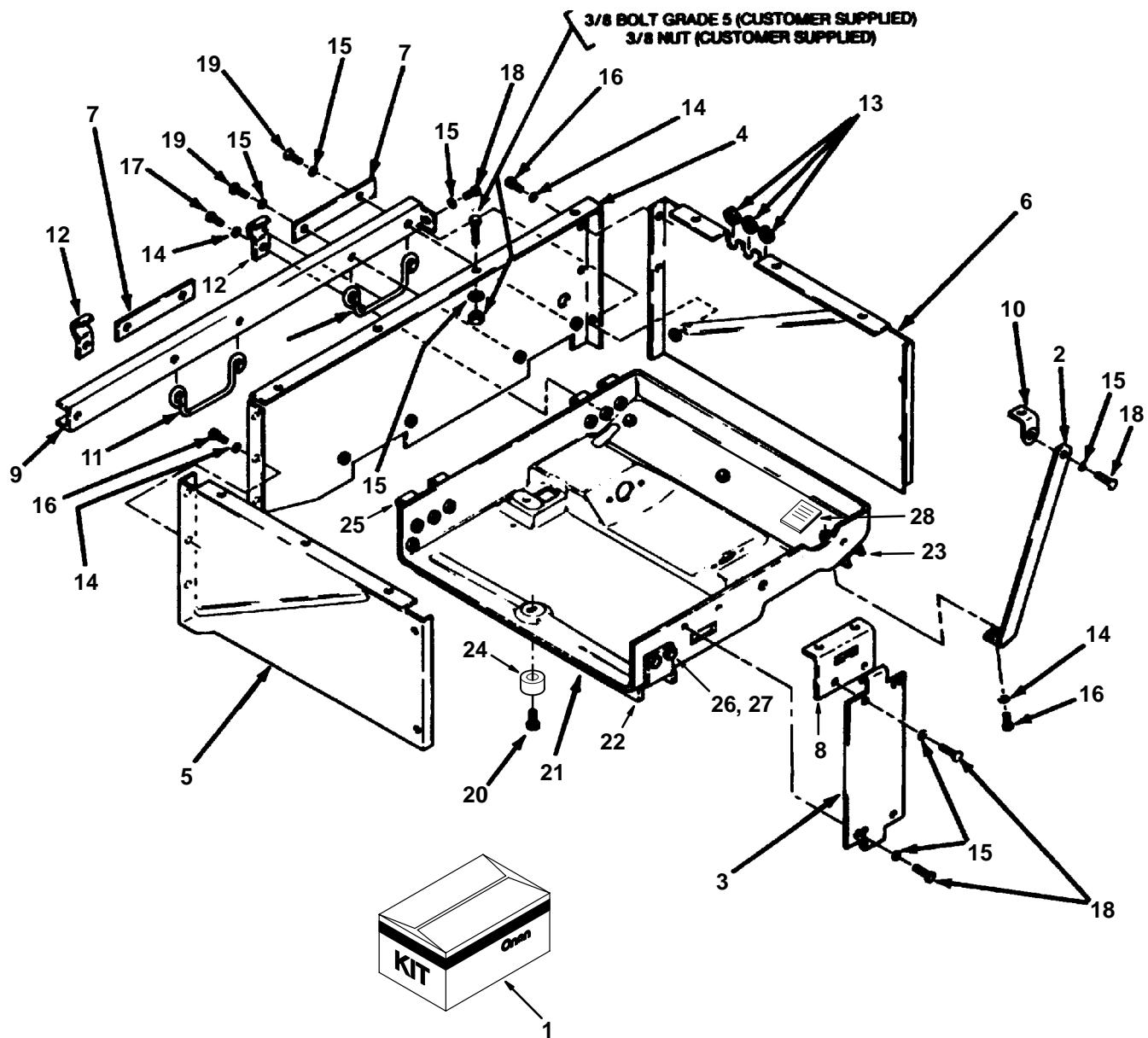
## Air Housing



## Air Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	134±4463±70	1	Scroll (Includes Baffle) Spec A±H	5			Screw, Flanged Hex Head Tapping
	134±5050	1	Begin Spec J		815±0759	2	Spec A (5/16±18 x 1°)
2		1	Housing, Left Air Cylinder		821±0014	2	Begin Spec B (5/16±18 x 1/2°)
	134±4353±70	1	Spec A±H (Onan Green)	6	403±1523±01	2	Bracket, Lifting
	134±4353±01	1	Begin Spec J (Premium Green)	7	134±4352±70	1	Housing, Right Air Cylinder
3			Screw, Hex Washer Head Self Locking		134±4352±01	1	Spec A±H (Onan Green)
	821±0009	2	Spec A (1/4±20 x 3/8°)	8	815±0261	4	Begin Spec J (Premium Green)
	821±0010	2	Spec B (1/4±20 x 1/2°)	9	134±4354±50	1	Screw, Hex Head Tapping
			Begin Spec C	10	134±4348	1	Backplate, Scroll
	821±0009	10	LP Vapor	11	870±0415	6	Guard, Scroll
	821±0009	11	LP Liquid	12	517±0283	1	Nut, Self Tapping (1/8°)
4			Shield, Noise				Plug, Dot Button
	155±2579	1	Spec A,B				
	155±2555±51	1	Begin Spec C (For Specs 4.0 FN/7512M, 4.5 FD/ 7512M, 4.5 FB/7512M, and 4.5 FB/30504M				

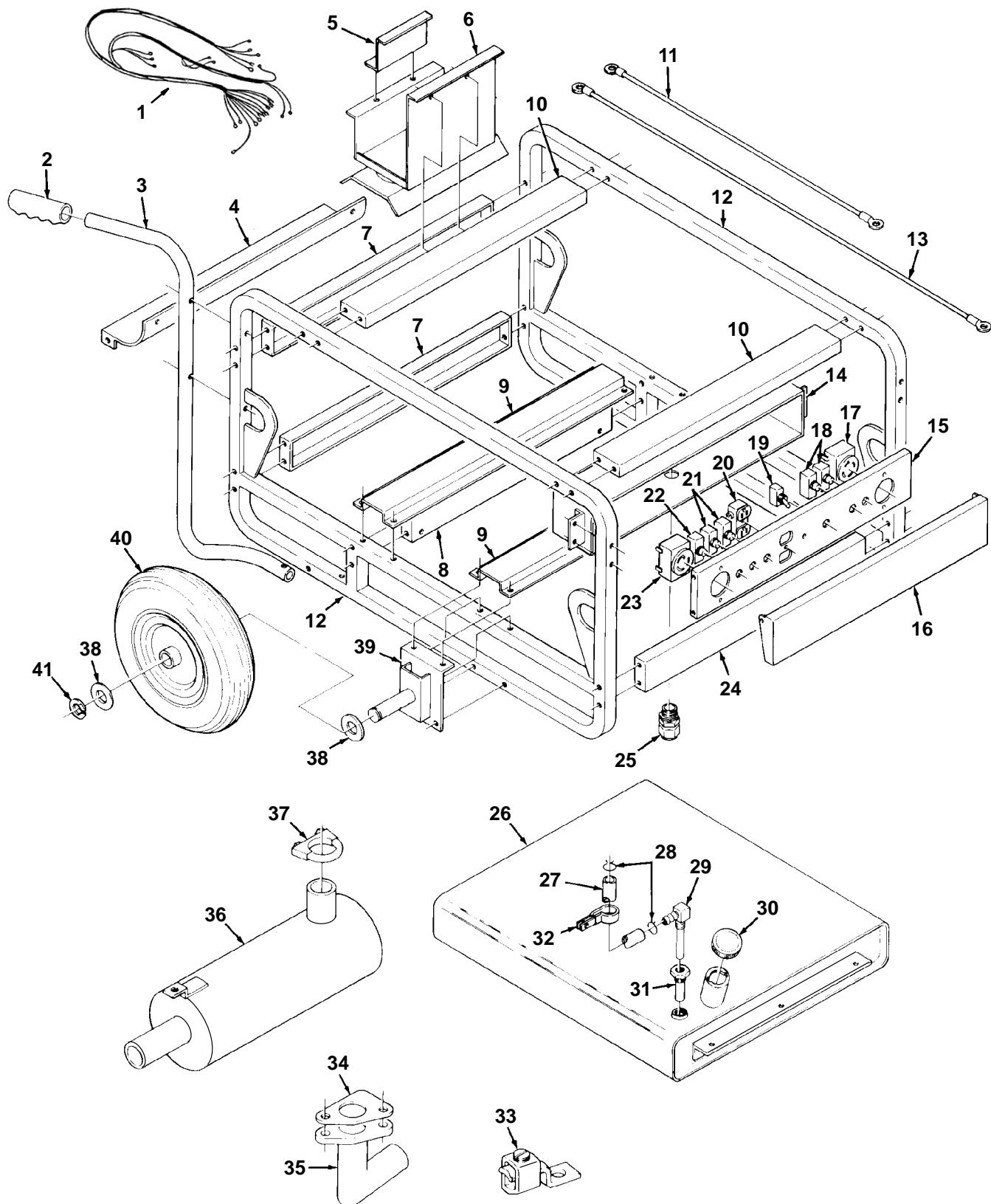
**Housing  
Below Floor Models**



## Housing Below Floor Models

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405±5754	1	Kit, Below Floor Housing (Spec J and Up) (Includes All Parts on This Page)	22	403±2725	1	Support, Drip Pan
2	405±3955	1	Support (Includes Label)	23	403±2786±02	1	Support, Drip Pan Assembly
3	405±3974	1	Support (Includes Label)	24	403±2745±02	1	Spacer, Engine Mount
4	405±3986	1	Panel, Housing (Rear)	25	406±0656±02	2	Plate, Hinge
5	405±3988	1	Panel, Housing (Left Hand)	26	526±0122	9	Washer, Flat (5/16 <sup>0</sup> )
6	405±3993	1	Panel, Housing (Right Hand)	27	800±0028	9	Screw, Hex Head Cap (5/16±18 x 1 <sup>0</sup> )
7	405±3996±02	2	Spacer, Brace	28	98±5313	1	Label, Warning
8	405±3999±02	1	Bracket, Housing	29	G±264	1	Sheet, Instruction (Not Shown)
9	405±4000	1	Brace, Rear	30	539±1001	1	Template, Mounting (Not Shown)
10	405±4037±02	1	Bracket, Housing	31	149±2560	1	Line, Fuel (Not Shown)
11	406±0655	2	Pin, Hinge	32	502±0065	1	Elbow, 45 Degree Inverted (Not Shown)
12	406±0657±02	2	Support, Hinge	33	338±3433	1	Harness, Extension (Not Shown)
13	508±0071	3	Grommet, Rubber	34	149±2559±02	1	Bracket, Fuel Pump
14	526±0122	8	Washer, Flat (5/16 <sup>0</sup> Hardened)	35	315±0728±03	1	Bracket, Regulator Mounting (Not Shown)
15	526±0174	23	Washer, Flat (3/8 <sup>0</sup> Hardened)	36	815±0290	2	Screw, Hex Washer Head Thread Forming (1/4±20 x 5/8 <sup>0</sup> ) (Not Shown)
16	800±0026	6	Screw, Hex Head Cap (5/16±18 x 3/4 <sup>0</sup> )	37	800±0005	2	Screw, Hex Head Cap (1/4±20 x 3/4 <sup>0</sup> ) (Not Shown)
17	800±0029	2	Screw, Hex Head Cap (5/16±18 x 1±1/8 <sup>0</sup> )	38	870±0212	2	Nut, Lock (1/4±20) (Not Shown)
18	800±0517	6	Screw, Hex Head Cap (3/8±16 x 1 <sup>0</sup> )				
19	800±0589	4	Screw, Hex Head Cap (3/8±16 x 1±1/2 <sup>0</sup> )				
20	815±0723	1	Screw, Hex Head Cap Locking Thread				
21	403±4109±01	1	Pan, Drip				

## Carrying Frame and Dolly



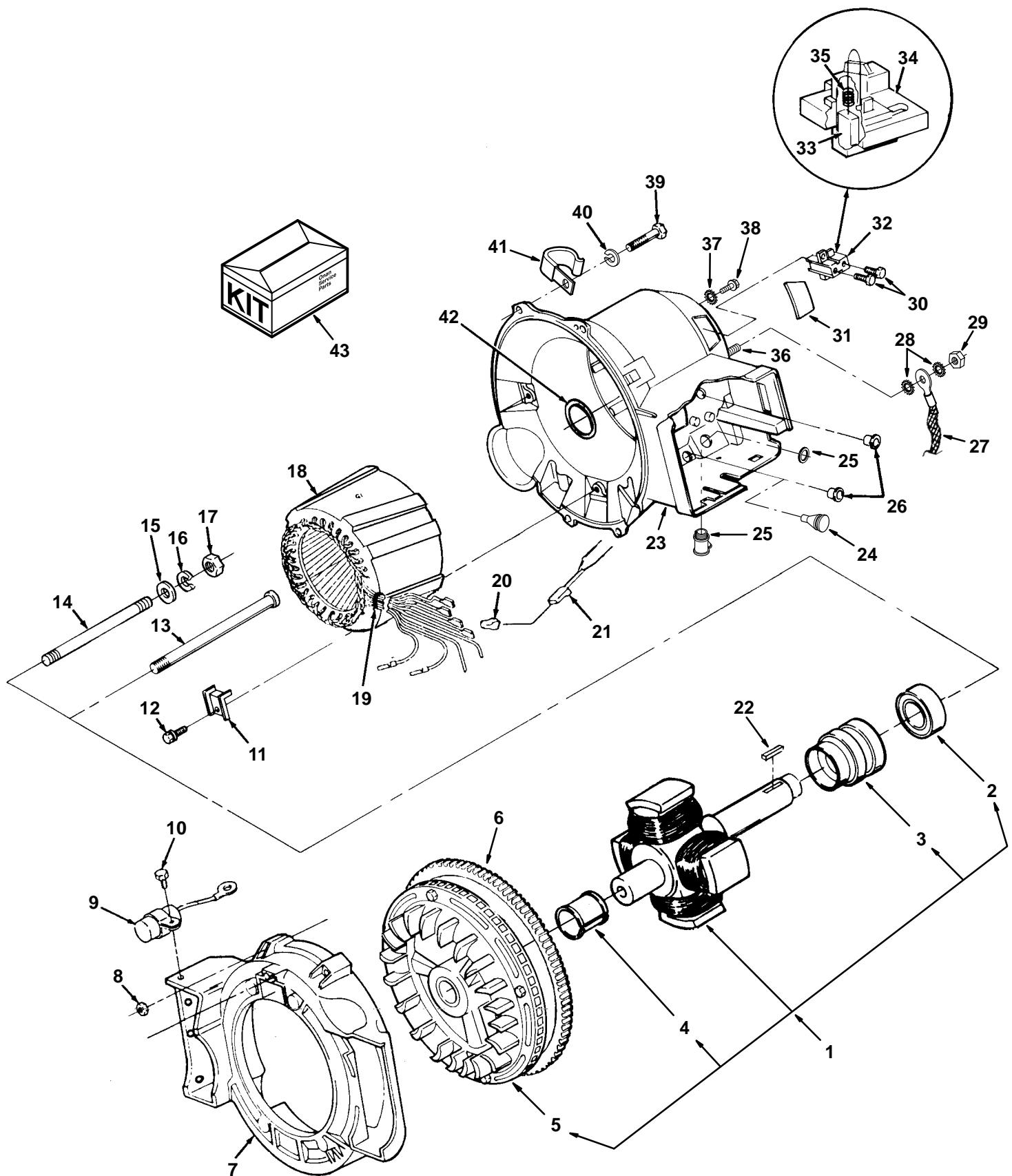
## Carrying Frame and Dolly

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338±2386	1	Harness, Wiring	21	320±0540	2	Breaker, Circuit
2	403±1477	2	Grip, Handle	22	320±0543	1	Breaker, Circuit
3	403±2872	2	Handle, Dolly	23	323±1107	1	Receptacle, 30 Ampere ± 120 Volt
4	403±2871	1	Baffle, Air	24	403±2866	1	Brace, Frame (3 Hole)
5	416±0950	1	Holddown, Battery	25	331±0244	4	Connector, Conduit (1/2")
6	416±0945	1	Tray, Battery	26	159±1193	1	Tank, Fuel (7 gal)
7	403±2865	2	Brace, Frame (2 Hole)	27	503±0707	1	Line, Fuel
8	403±2868	1	Brace, Frame (5 Hole)	28	503±0301	2	Clamp, Hose
9	403±2870	2	Bracket, Generator Support	29	149±2208	1	Strainer and Elbow
10	403±2867	2	Brace, Frame	30	159±0020	1	Cap, Fuel Tank
11	416±0951±01	1	Cable, Battery (Negative) 26° Long	31	159±1199	1	Tube, Pickup
12	403±2864	2	Frame, Carrying (Side)	32	332±1554	4	Clamp, Loop
13	416±0951±02	1	Cable, Battery (Positive) 40° Long	33	332±0142	1	Lug, Solderless
14	319±0476	1	Box, Receptacle	34	154±2542	1	Gasket, Exhaust
15	319±0477	1	Panel, Receptacle	35	154±2539	1	Tube, Exhaust
16	319±0478	1	Cover, Receptacle Box	36	155±2383	1	Muffler
17	323±1111	1	Receptacle, 20 Ampere ± 125/250 Volt	37	155±1256	1	Clamp, Muffler
18	320±0541	2	Breaker, Circuit, 20 Ampere ± 125/250 VAC	38	526±0081	4	Washer, Flat (1° Screw)
19	308±0479	1	Switch, Toggle (3 PDT)	39	410±1025	2	Axle, Dolly
20	323±1104	1	Receptacle, 15 Ampere ± 120 Volt	40	410±0236	2	Tire and Wheel
				41	518±0130	4	Ring, External Retaining

## Hardware (Not Illustrated)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
800±0031	28	Screw, Cap ± Hex Head (5/16±18 x 1.50)	800±0026	2	Screw, Cap ± Hex Head (5/16±18 x 3/4)	Battery	Connectors
850±0045	36	Washer, Lock (5/16)	856±0008	2	Washer, EIT (5/16)	Battery	Connectors
114±0022	8	Screw, Cap ± Hex Head (5/16±18 x 1.75)	862±0015	2	Nut, Lock ± Hex (5/16±18)	Battery	Connectors
870±0257	8	Nut, Lock ± Hex (5/16±18)	856±0006	2	Washer, EIT (1/4)	Battery	Connectors
800±0003	12	Screw, Cap ± Hex Head (1/4±20 x .50)	800±0003	1	Screw, Cap ± Hex Head (1/4±20 x .50)	Washer, EIT	(1/4)
850±0040	14	Washer, Lock (1/4)	800±0004	2	Screw, Cap ± Hex Head (1/4±20 x .50)	Screw, Cap ± Hex Head	(1/4±20 x .50)
800±0009	2	Screw, Cap ± Hex Head (1/4±20 x 1.50)	800±0045	2	Screw, Cap ± Hex Head (1/4±20 x .62)	Screw, Cap ± Hex Head	(1/4±20 x .62)
870±0131	2	Nut, Hex W/ET (10±32)	850±0040	2	Washer, Lock (1/4)	Washer, Lock	(1/4)
821±0004	4	Screw, Hex Washer Head (10±32 x .31)	800±0730	2	Screw, Cap ± Hex Head (5/16±18 x 1.00)	Screw, Cap ± Hex Head	(5/16±18 x 1.00)
800±0048	3	Screw, Cap ± Hex Head (3/8±16 x .75)	850±0045	2	Washer, Lock (5/16)	Washer, Lock	(5/16)
850±0050	4	Washer, Lock (3/8)	526±0130	2	Washer, Flat (1/4° Screw)	Washer, Flat	(1/4° Screw)
800±0051	1	Screw, Cap ± Hex Head (3/8±16 x 1.25)	800±0056	6	Screw, Cap ± Hex Head (3/8±16 x 2.50)	Screw, Cap ± Hex Head	(3/8±16 x 2.50)
856±0010	2	Washer, EIT (3/8)	870±0281	10	Nut, Hex Washer Head (3/8±16)	Nut, Hex Washer Head	(3/8±16)
862±0003	1	Nut, Hex (3/8±16)	850±0050	10	Washer, Lock (3/8)	Washer, Lock	(3/8)
870±0281	2	Nut, Hex Washer Head (3/8±16)	800±0054	4	Screw, Cap ± Hex Head (3/8±16 x 2.00)	Screw, Cap ± Hex Head	(3/8±16 x 2.00)
815±0480	2	Screw, Shoulder (10±32)					
815±0389	2	Screw, Thread Form (1/4)					

## Generator

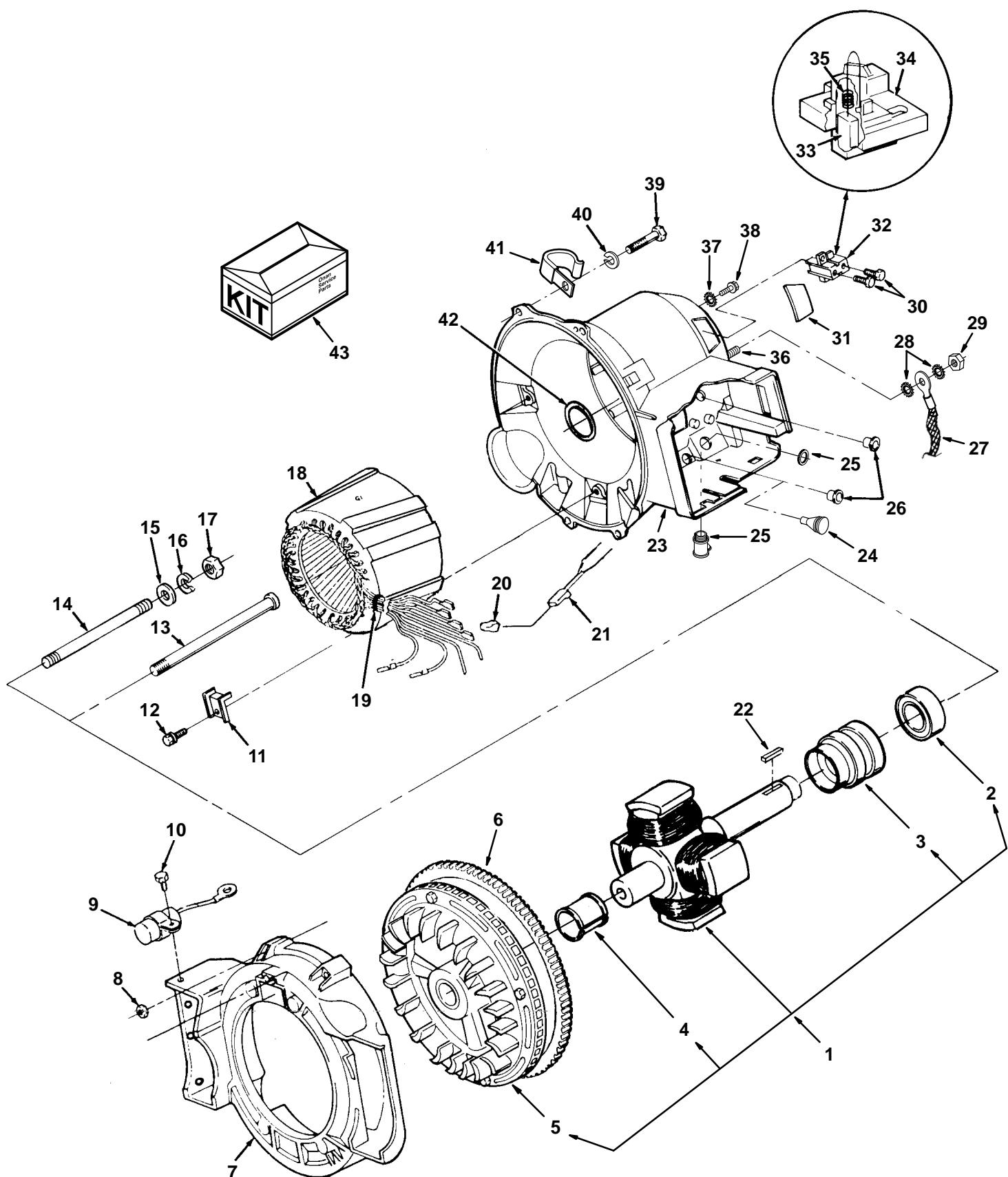


## Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1			Rotor Assy (Includes, Ball Bearing and Collector Ring) Spec A±E (Includes Gen Fan and Tolerance Ring) Standard Shaft	12	815±0646	3	Screw, Hex Washer Head Cap (1/4±20 x 3/4")	
	201±3388±03	1	Volt Code FA,FB,FN	13	802±1038	1	Screw, Armature Socket Through (Standard Shaft) (7/16±14 x 10.23")	
	201±3388±05	1	Volt Code FD,FT	14	520±0961±02	1	Stud ± 13.125" Long Extended Shaft	
	201±3388±04	1	Extended Shaft	15	526±0032	1	Washer, Flat (7/16")	
	201±3388±06	1	Volt Code FA,FB,FN	16	850±0055	1	Washer, Lock (7/16")	
			Volt Code FD,FT	17	870±0203	1	Nut, Hex (7/16±20)	
			Spec F, G	18			Stator, Generator Spec A±F	
	201±3509±01	1	Standard Shaft		220±4135±04	1	Volt Code FA,FB	
	201±3509±03	1	Volt Code FA,FB,FN		220±4194±03	1	Volt Code FD	
			Volt Code FD,FT		220±4135±03	1	Volt Code FN	
	201±3509±02	1	Extended Shaft		220±4194±02	1	Volt Code FT	
	201±3509±04	1	Volt Code FA,FB,FN		220±4135±04	1	Spec G, H	
			Volt Code FD,FT		220±4194±06	1	Volt Code FA,FB	
	201±3514±01	1	Spec H (Includes Fan & Gear)		220±4135±03	1	Volt Code FD	
	201±3514±03	1	Standard Shaft		220±4194±05	1	Volt Code FN	
			Volt Code FA,FB,FN		220±4135±07	1	Volt Code FT	
	201±3514±02	1	Volt Code FD,FT		220±4194±09	1	Begin Spec J	
	201±3514±04	1	Begin Spec J (Includes		220±4135±08	1	Volt Code FB	
			Fan & Gear)	19	332±0941	1	Volt Code FD	
			Standard Shaft	20	323±1298	2	Volt Code FN	
	201±3525±01	1	Volt Code FA,FB,FN	21	332±0819	2	Volt Code FT	
	201±3525±03	1	Volt Code FD,FT	22	515±0142	1	Begin Spec K	
			Extended Shaft	23			Volt Code FB	
	201±3525±02	1	Volt Code FA,FB,FN		220±4133	1	Volt Code FD	
	201±3525±04	1	Volt Code FD,FT		220±4133	1	Volt Code FN	
2	510±0185	1	Kit, Bearing Replacement		220±4133	1	Tie, Cable	
3	204±0134	1	Ring, Armature Collector		220±4133	1	Connector, Tab	
4	518±0460	1	Ring, Tolerance (Spec A±E)		220±4133±02	1	Connector, Receptacle	
5	205±0165	1	Fan, Generator		220±4438±02	1	Key, Extended Shaft (1/4" x 1")	
			Spec A±G (Note: When replacing generator fan, tolerance ring 518±0460 must also be replaced)		220±4532±01	1	Housing, Stator	
	205±0221	1	Spec H (Includes Ring Gear)		220±4532±03	1	Standard Shaft	
	205±0241	1	Begin Spec J (Includes Ring Gear)		220±4193±01	1	Spec A±F	
6			Gear, Ring		220±4439		Spec G±H	
	104±1570	1	Spec H		220±4439±01	1	Volt Code FB, FN	
	104±0779	1	Begin Spec J	24	517±0319	1	Volt Code FD, FT	
7			Adapter, Generator	25	331±0536	1	Plug, Control Box (Spec A±H)	
	231±0288±01	1	Spec A±H		26		Connector, Conduit (Includes Fastener) (Begin Spec G)	
			Begin Spec J		508±0272	2	Grommet, Nylon (.68" ID)	
	231±0381±01	1	Single Phase		508±0272	1	Spec A±H	
	231±0381±03	1	Three Phase		27	337±2808	1	Begin Spec J
8			Nut, Hex	28	856±0008	2	Strap, Bond (Begin Spec J)	
	862±0003	6	Spec A±H (3/8±16)	29	821±0015	1	Washer, EIT (3/8") (Begin Spec J)	
	862±0041	2	Begin Spec J	30	815±0359	2	Nut, Hex (5/16±18) (Begin Spec J)	
9	312±0256	1	Condenser, Ignition (Spec A±F, H,J)				Screw (10±32 x 7/8")	
10			Screw, Hex Washer Head		815±0788	2	Spec A,B Hex Head Thread	
			Thread Forming				Forming	
	815±0340	1	Spec A (10±32 x 3/8")				Begin Spec C, Pan Head	
	815±0770	1	Begin Spec B (Special)				Torx Drive	
11	232±2955±02	3	Clamp, Stator					



## Generator

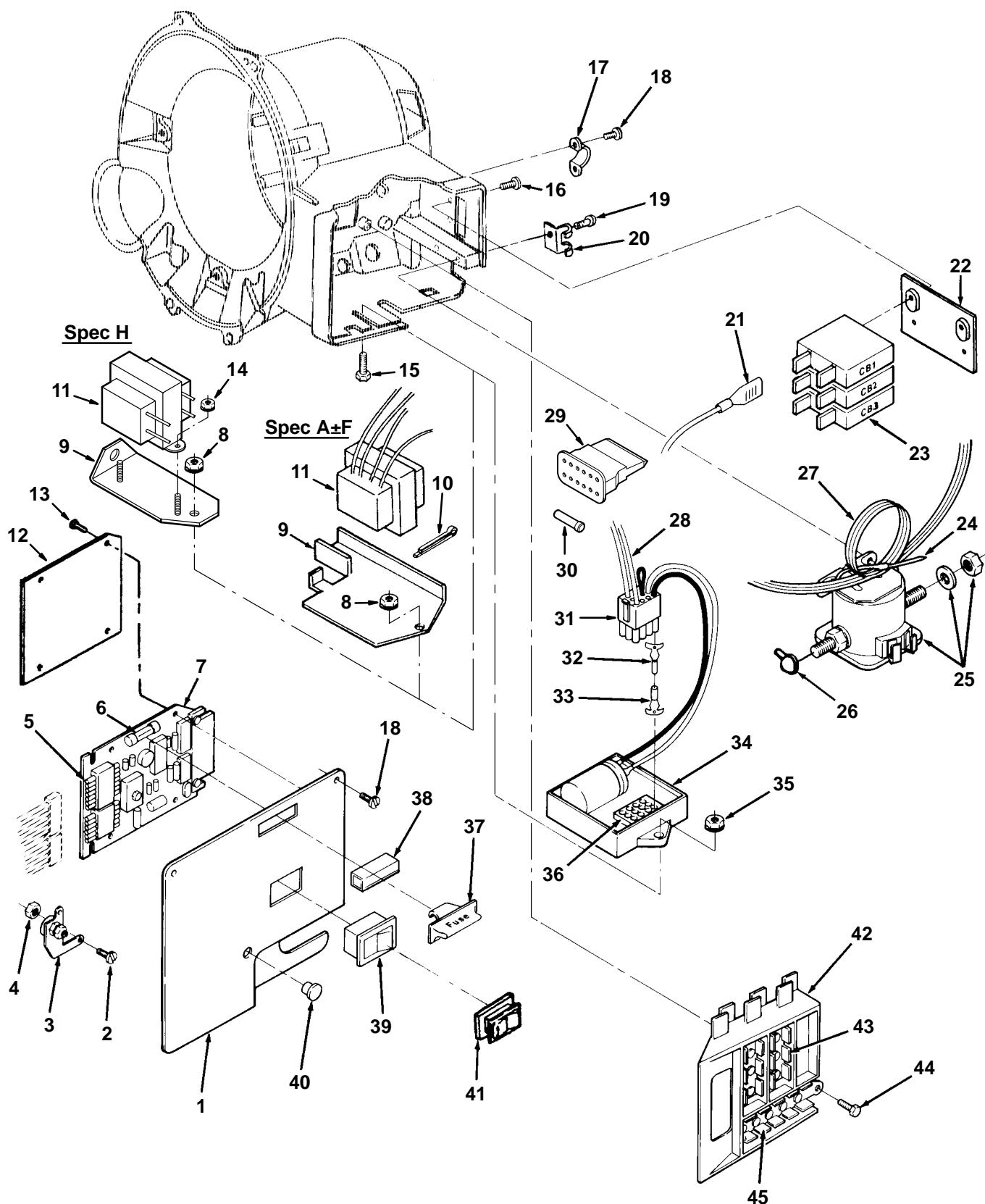


## Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
31	212±1284	1	Cover, Brush Block	40			Washer, Spring Lock (3/8 <sup>0</sup> )
32	212±1285	1	Block, Brush (Includes Parts Marked *)	850±0050	4		Spec A±H
				850±0114±07	4		Spec J Only
33	214±0103	2	*Brush, Generator	41	332±3359	1	Clip, Harness
34	212±1286	1	*Block, Terminal	42	509±0196	1	O±Ring, Stator Housing
35	212±1276±03	2	*Spring, Generator Brush	43			Kit, Rotor (Includes Rotor Assy and Starter)
36	332±3328	1	Stud, Grounding				Standard Shaft
37	856±0010	1	Washer, EIT Lock (3/8 <sup>0</sup> ) (Gasoline Sets)	300±4451	1		Volt Code FA, FB, FN
38	821±0031	1	Screw (3/8±16 x 1 <sup>0</sup> ) (Gasoline Sets)	300±4453	1		Volt Code FD, FT
39			Screw, Head Hex Flange	300±4442	1		Extended Shaft
	800±0575	4	Spec A±F (3/8±16 x 1±1/8 <sup>0</sup> )	300±4452	1		Volt Code FA.,FB, FN
	800±0052	4	Spec G, H (3/8±16 x 1±1/2 <sup>0</sup> )				Volt Code FD, FT
	800±0600	4	Spec J (3/8±16 x 1±1/2 <sup>0</sup> )				
	815±0908	4	Begin Spec K (3/8±16 x 1±1/2)				

\* ± Parts Included in Generator Brush Block.

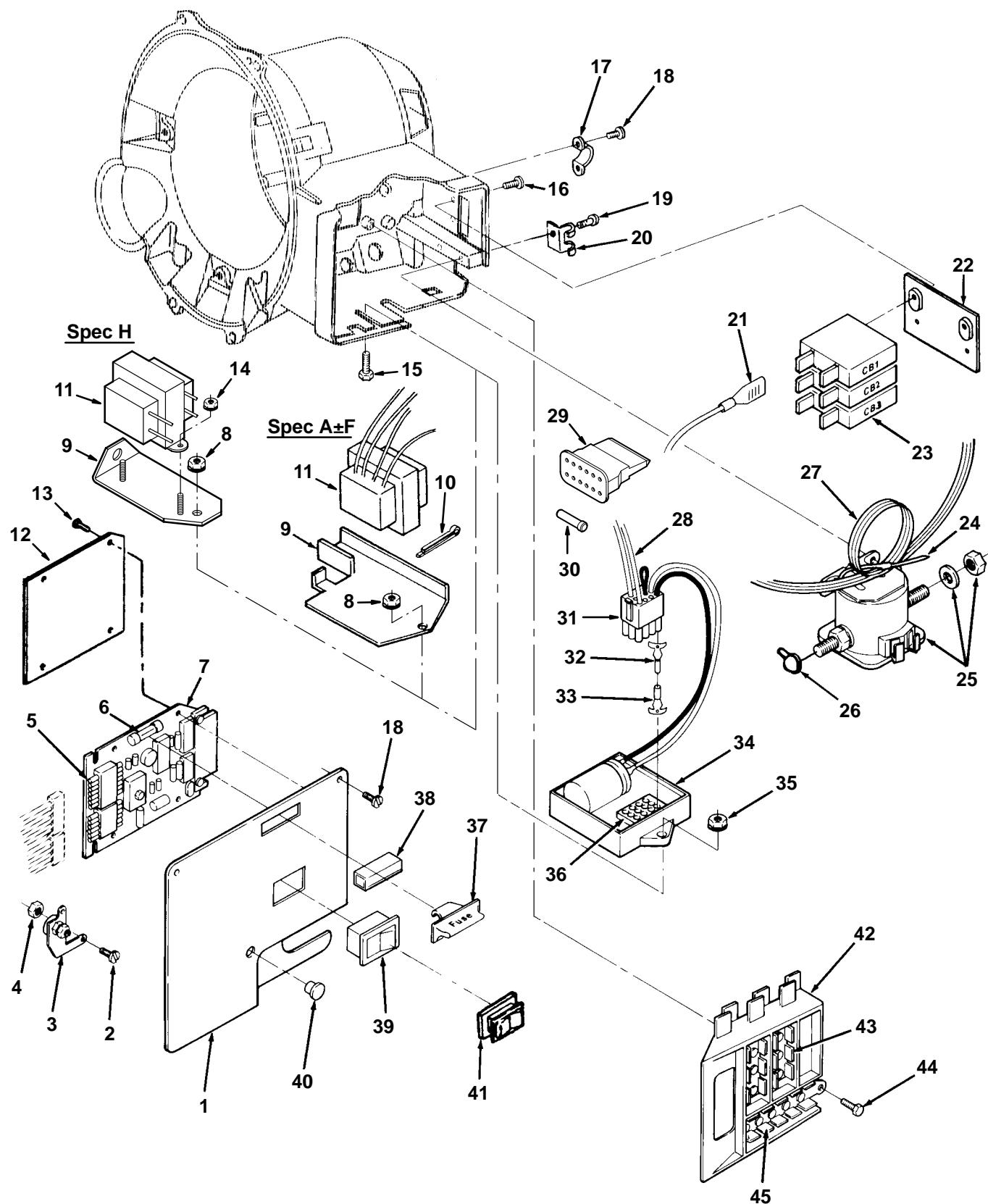
**Control  
(Spec A±H)**



## Control (Spec A±H)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover, Control	17	232±3265±02	1	Clamp, Conduit
	319±1238	1	Spec A,B	18	815±0661	2	Screw, Pan Head Thread
	319±1237	1	Spec C±E				Forming (10±32 x 1/2 <sup>0</sup> )
			Spec F	19	815±0692±02	1	Screw, Pan Head Torx
	319±1237±03	1	4.0kW				(Special)
	319±1237±06	1	4.5kW	20	321±0323±02	1	Bracket, Fuse Holder (Begin
	319±1237±08	1	3.5kW				Spec F)
			Spec G,H	21			Lead, Circuit Breaker
			4.0kW		226±3504	2	Volt Code FA,FB,FD,FN
	319±1237±03		Volt Code FA, FB, FN		226±3852±01	1	Volt Code FD
	319±1238±10	1	Volt Code FT		226±3852±02	1	Volt Code FD
	319±1237±08	1	3.5kW		226±3852±03	1	Volt Code FD
			4.5kW		226±3504±01	1	Begin Spec C Volt Code
	319±1237±06	1	Volt Code FB				FB,FD,FN
	319±1238±13	1	Volt Code FD	22	320±1694	1	Cover, Circuit Breaker ± Volt
2	815±0385	1	Screw, Round Head (Spec A±F) (#6±32 x 1/2 <sup>0</sup> )				Code FT (Begin Spec C)
3	303±0276	1	Potentiometer (R5)	23			Breaker, Circuit (CB1, CB2)
4	870±0183	1	Nut, Hex (#6±32) (Spec A±F)		320±1649±02	1	Spec A±D
5	323±1302	8	Pin, Contact		320±1323	2	12A
6	321±0298	3	Fuse, 5 Amp (F1)				30A
7			Board, Printed Circuit (Includes Fuse) (A1)		320±1320	2	Spec F±J
	300±3951	1	Spec A,B		320±1320	2	3.5 KW (15A)
			Spec C±H		320±1321	2	4.0 KW
	300±3763±03	1	Sets without Battery Charger		320±1321	1	Volt Code FA (15A)
	300±3763±04	1	Sets with Battery Charger		320±1321	2	Volt Code FB, FN (20A)
8	870±0131	1	Nut, W/ET (10±32)				Spec FB/7512J Only
9			Bracket, Transformer		320±1649±03	1	4.5 KW
	319±0568	1	Spec A±F		320±1649±05	1	Volt Code FB (20A)
	315±0739±02		Begin Spec H				Volt Code FD
10	516±0069	1	Pin, Cotter (Spec A±F)				Spec 1 & 30502 (15A)
11			Transformer, Voltage Regulator (T2)		320±1548±04	1	Spec 67403 & 67404 (20A)
	315±0684	1	Spec A±F	24	332±0941	1	Begin Spec M
	315±0738	1	Begin Spec H	25	307±2570	1	20 Amps
12	332±3075	1	Insulator, PC Board				30 Amps
13	815±0550	4	Screw, Pan Head Cross Recessed (6±32 x 3/8 <sup>0</sup> )	26	332±2112	1	Tie, Cable
14	870±1183	2	Nut, Hex W/ET (#6±32) (Begin Spec H)				Solenoid, Start (K1) (Includes Nuts and Washers)
15	821±0003	1	Screw, Lock Head Flange (#10±32 x 1 <sup>0</sup> )	27	338±2332	1	Insulator Start Solenoid
16			Screw, (2 per each Circuit Breaker)		338±2360	1	Terminal (Optional)
	815±0662	2	Slotted Head IT (6/32 x 1/2 <sup>0</sup> )		338±2572	1	Harness, AC Outlet
	815±0550	4	Pan Head Cross Recessed (6/32 x 3/8 <sup>0</sup> ) Volt Code FA,FB,FD,FN (Begin Spec C)		338±2058	1	Volt Code FA,FB,FN
							Volt Code FD
							VoltCode FT (Begin Spec C)
							Volt Code FB (Begin Spec C)

**Control  
(Spec A±H)**

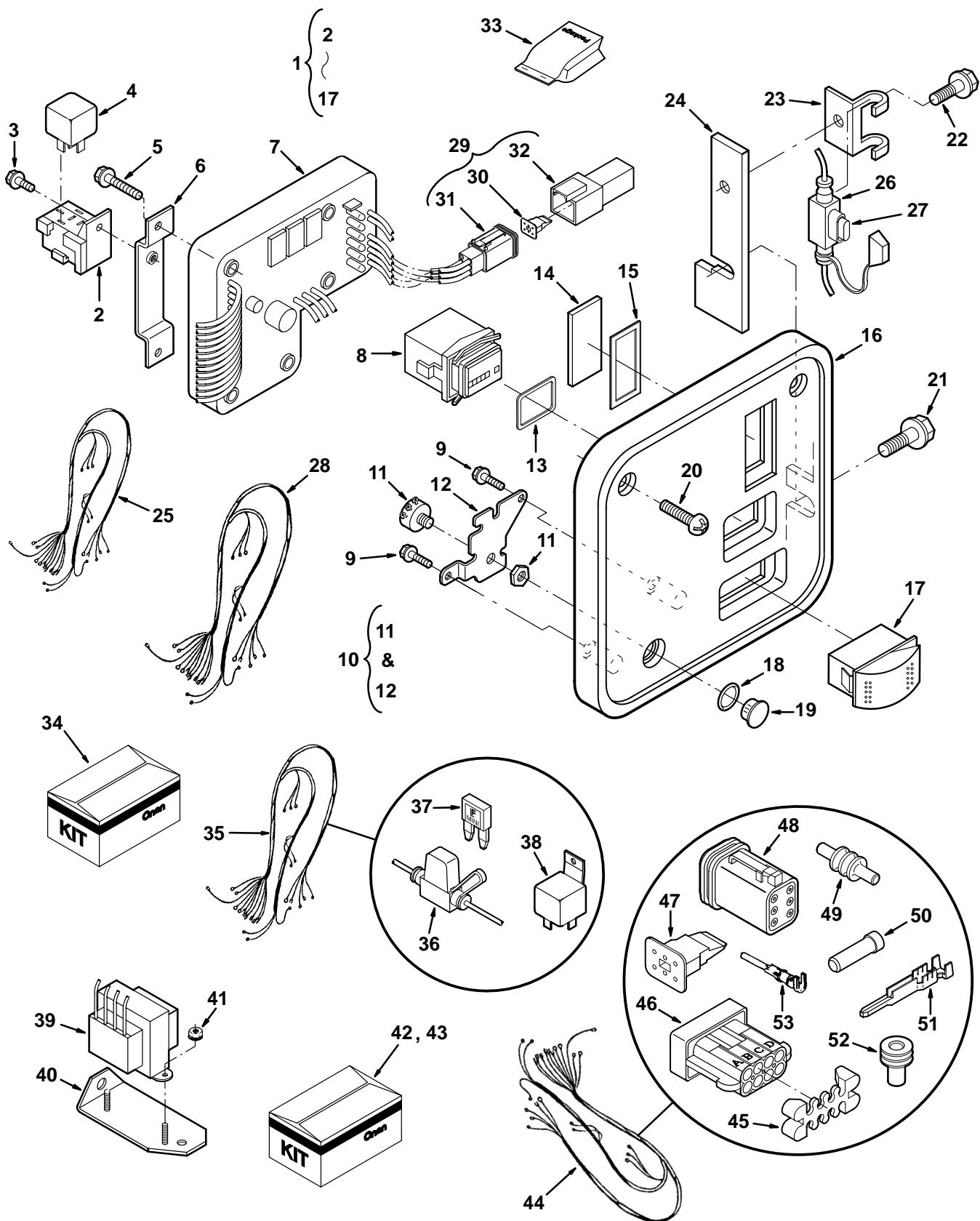


**Control  
(Spec A±H)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
28			Harness, Voltage Regulator (Includes 12 Pin Housing and Sockets) Spec A±F	33	323±1200	9	Socket, Contact ± 60 Hertz Spec A±F
338±2083	1		Volt Code FA,FB,FN ± 4.0BGD	34			Regulator, Voltage (VR1) Spec A±F
338±2083±01	1		Volt Code FN ± 50 Hz 3 Leads ± 3.5BGD	305±0809±05	1		Volt Code FA, FB
338±2083±02	1		Volt Code FD ± 60 Hz ± 3 Phase, 4.5BGD	305±0809±03	1		Volt Code FD
338±2083±03	1		Volt Code FT ± 50 Hz ± 3 Phase (Begin Spec C)	305±0830±01	1		Volt Code FN
338±2076	1		Volt Code FB ± 60 Hertz (Begin Spec C)	305±0809±05	1		Volt Code FT
338±2083			Spec G, H Volt Code FA, FB, FN (Includes 12 Pin Housing and Sockets)	35	870±0131	1	Spec G, H
338±2918	1		Volt Code FD, FT (Includes Parts Marked *)	36	323±1371	1	Volt Code FA, FB
29	323±1583	1	*Wedge, Connector Housing Spec G	37	321±0295	1	Volt Code FD, FT
30	323±1591	5	*Plug, Connector Housing (Spec G)	38	321±0287	1	Volt Code FN
31	323±1314	1	Housing, Connector (12 Pin) Spec A±F (J4)	39	308±0995	1	Volt Code FT
	323±1582	1	* Spec G (P4) (Three Phase Sets)	40	517±0133	1	Header (12 Pin) Spec A±F (P4)
32	323±1199	12	Pin, Contact Spec A±F	41	308±0949	1	Holder, Fuse (Holds Spare Fuse)
	323±1491	7	Spec G (Three Phase Sets)	42	332±2859±02	1	Insulator, Fuse
				43	332±2859±01	1	Switch, Rocker
				44	815±0691±01	1	Plug, Hole
				45	332±2868	1	Cover, Foam Rubber Switch
							Block, Terminal
							Volt Code FB (Begin Spec C) (4500 Watts)
							All Others
							Terminal, Tab
							Volt Code FB,FN
							Volt Code FD
							Screw, Pan Head (Special)
							Terminal, Ground

\* ± Parts Included in 338±2918 Wiring Harness.

**Control**  
(Begin Spec J)



**Control  
(Begin Spec J)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box Assy, Control (Includes Parts Marked *)	33	305±0923	1	Kit, Remote Adapter (Includes Parts Marked &) (Use With 323±1625 Connector) (Must Splice To Harness in Remote Adapter Kit 305±0979 Begin Spec M)
	300±4505	1	Volt Code FA, FB, FN				&Sheet, Instruction
	300±4505±01	1	Volt Code FD, FT				&Splice, Thermal
2	323±1563	1	*Socket, Relay				&Fuse, 10 Amp
3	821±0002	1	*Screw, Hex Washer Head (#10±32 x 1/4")	C±477		1	&Wedge, Receptacle
4	307±2767	1	*Relay, Starter	332±3376±02		5	&Lead Assembly, Adapter
5	815±0870	5	*Screw, Slotted Hex Washer Head (#10±16 x 1±1/4")	321±0321±06		2	Kit, Wiring (Spec J and Up) (Includeds Parts Marked #)
6	307±2833±03	1	*Bracket, Starter Relay	323±1626		1	#Wiring Diagram, Start With Automatic Transfer Switch (Not Shown)
7	300±5002±01	1	*Board, PC	226±4662		5	#Harness, Engine Start (Includes Parts Marked ~)
8	302±2002	1	*Hourmeter	34	541±0543	1	~Holder, Fuse
9	815±0867	2	*Screw, Hex Washer Head (#6±32 x 1/2") (Volt Code FA, FB, FN)	612±6717		1	~Fuse (5 Amp)
10	303±0276	1	*Potentiometer Assy (R5) (Includes Bracket and Potentiometer) (Volt Code FA, FB, FN)	35	338±3624	1	~Relay
11	303±0275	1	Potentiometer (R5) (Volt Code FA, FB, FN) (Includes Nut)	36	321±0322	1	Transformer, Voltage (50 Hz)
12	319±0668	1	Bracket, Potentiometer	37	321±0321±04	1	Bracket, Transformer
13	302±2003	1	*Gasket, Hourmeter	38	307±1886	1	Nut, External Tooth Hex (#6±32)
14	319±2359	1	*Window, Control Box	39	315±0758	1	Kit, Remote Adapter (Begin Spec M) (Includes Parts Marked ^)
15	319±2360	1	*Gasket, Window	40	315±0739±02	1	^Seal, Cable
16	319±2272	1	*Cover, Control Box	41	870±1183	2	^Splice, Thermal
17	308±1050	1	*Switch, Rocker	42	305±0979		^Harness, Remote
18	509±0313	1	O'Ring				^Sheet, Instruction
19	517±0133	1	Plug, Hole				Kit, Remote Adapter
20	815±0788	2	Screw, Torx (#10±32 x .88)				Harness, Adaptor (Includes Parts Marked >)
21	815±0384	1	Screw, Hex Washer Head	43	305±0980	1	>Lock, Housing (8 Pin)
22			Attachment, Connector Hole Cover	44	338±3673	1	>Connector, Receptacle (8 Pin)
	870±0065	1	Nut, Hex Lock (Spec A±J)	45	323±1741		>Wedge, Plug (6 PL)
	815±0261	1	Screw, Hex Washer Head (Begin Spec K) (1/4±20 x 1/2")	46	323±1744	1	>Connector, Plug (6 PL)
23	321±0323±02	1	Bracket, Fuse Holder	47	323±1624	1	>Plug, Cavity
24			Cover, Connector Hole	48	323±1623	1	>Plug, Seal
	232±3836±02	1	Spec A±J	49	323±1712	3	>Pin, Terminal
	232±3933±02	1	Begin Spec K	50	323±1591	1	>Seal, Cable
25	338±3143	1	Harness, Engine (Includes Fuse Holder and Fuse)	51	323±1707	5	>Terminal, Socket
26	321±0322	1	Holder, Fuse	52	323±1708	5	
27	321±0321±06	1	Fuse, 10A (F2)	53	323±1492	5	
28			Harness, Wiring ± AC Output				
	338±2332	1	Volt Code FA,FB,FN				
	338±2360	1	Volt Code FD				
	338±2572	1	Volt Code FT				
29	338±3109	1	Harness, PCB (Includes Connectors and Plug Wedge)				
30	323±1624	1	Wedge, Plug (6 PL)				
31	323±1623	1	Connector, Plug (6 PL)				
32	323±1625	1	Connector, Receptacle (6 PL)				

\* ± Parts Included in Control Box Assy.

& ± Parts Included in 305±0923 Remote Adapter Kit.

# ± Parts Included in Wiring Kit.

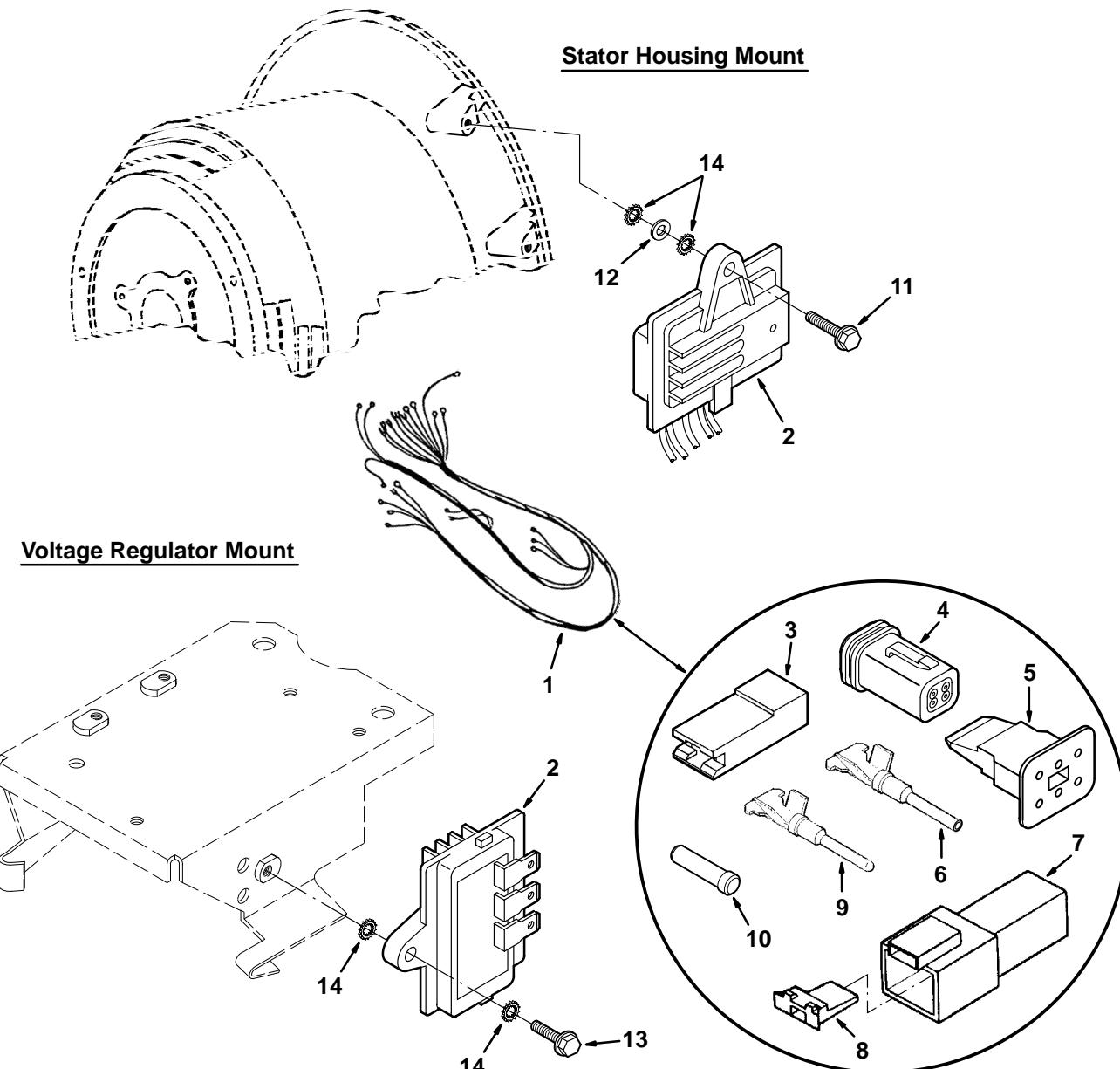
~ ± Parts Included in Engine Start Harness.

^ ± Parts Included in 305±0979 Remote Adapter Kit.

> ± Parts Included in Harness Adapter.



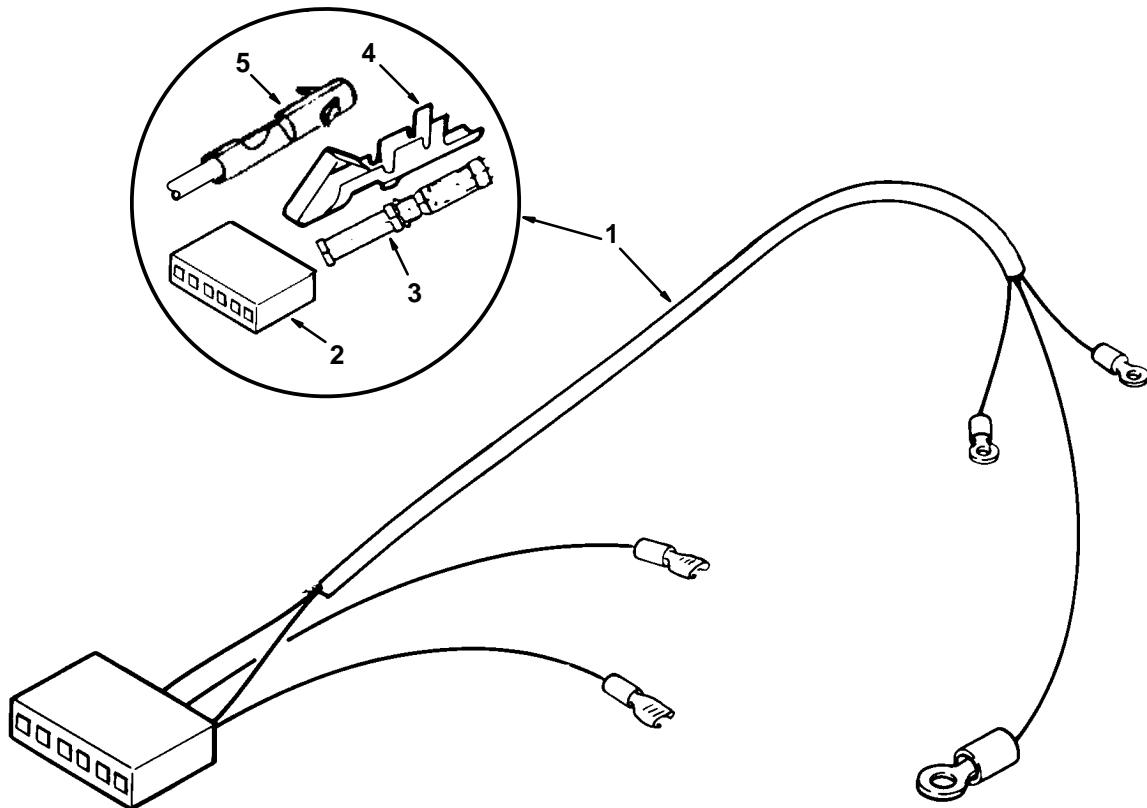
**Wiring Harness  
Battery Regulator  
(Begin Spec J)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338±3145	1	Harness, Battery Regulator (Includes Parts Marked +)	10	323±1591	1	+Plug, Connector
2	191±2139	1	+Regulator, Battery (VR2)	11	815±0610	1	Screw, Hex Head Thread Forming (1/4±20 x 1 <sup>9</sup> )
3	323±1216	1	+Body, Connector	12	526±0018	1	Washer, Flat
4	323±1623	1	+Connector, Plug	13	821±0018	1	Screw, Hex Lock (1/4±20 x 5/8 <sup>9</sup> )
5	323±1624	1	+Wedge, Plug	14	856±0006	4	Washer, EIT (1/4)
6	323±1492	1	+Socket, Terminal				
7	323±1505	1	+Connector, Receptacle				
8	323±1501	1	+Wedge, Receptacle				
9	323±1491	1	+Pin, Terminal				

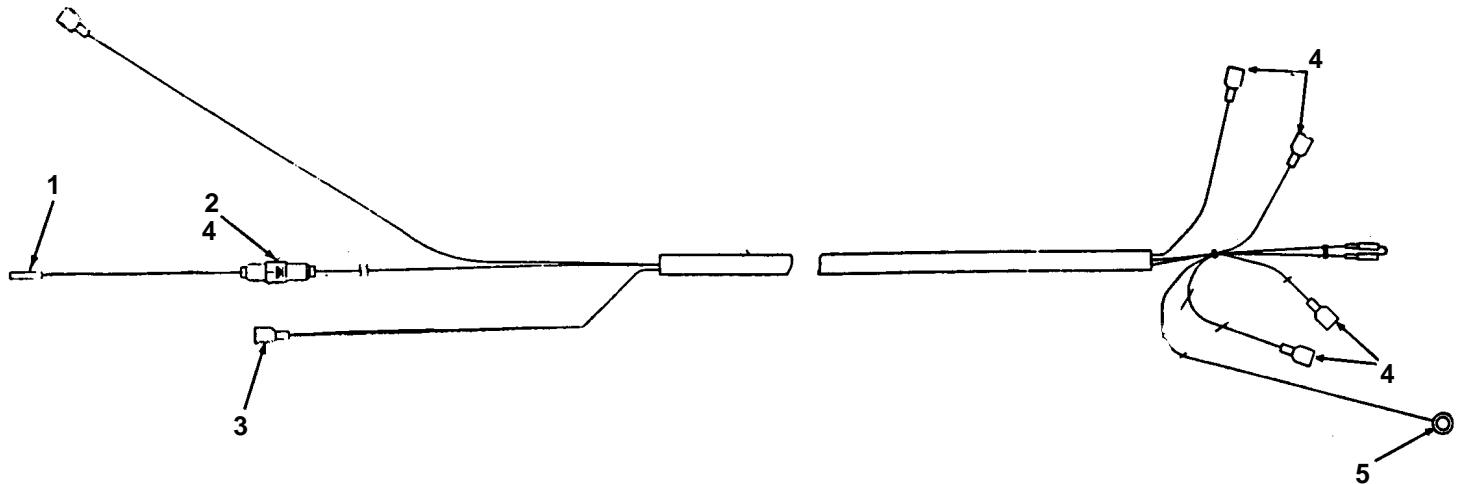
+ ± Parts Included in Battery Regulator Harness.

## Wiring Harness Printed Circuit Board



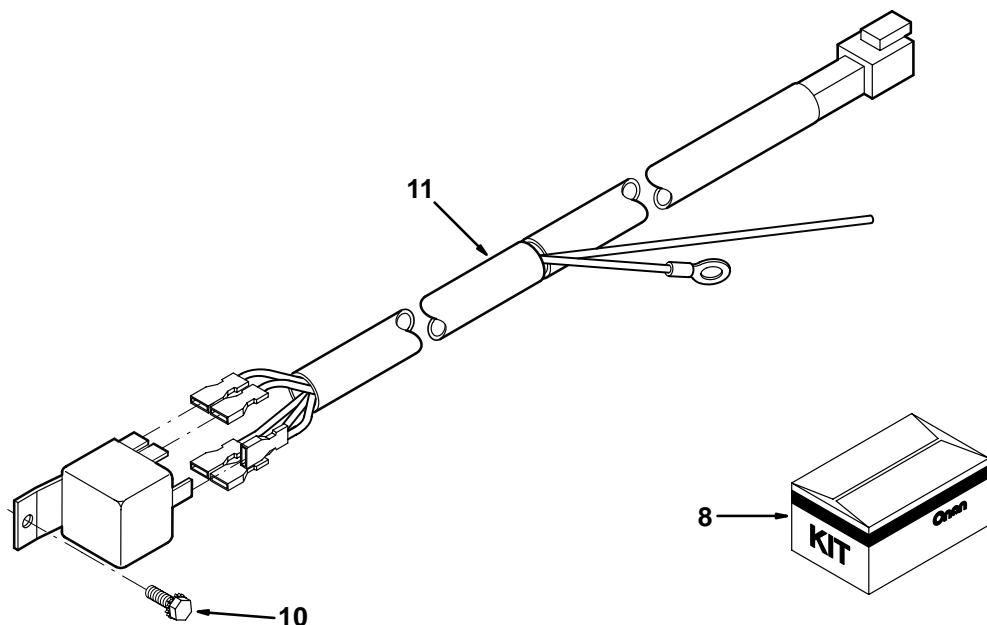
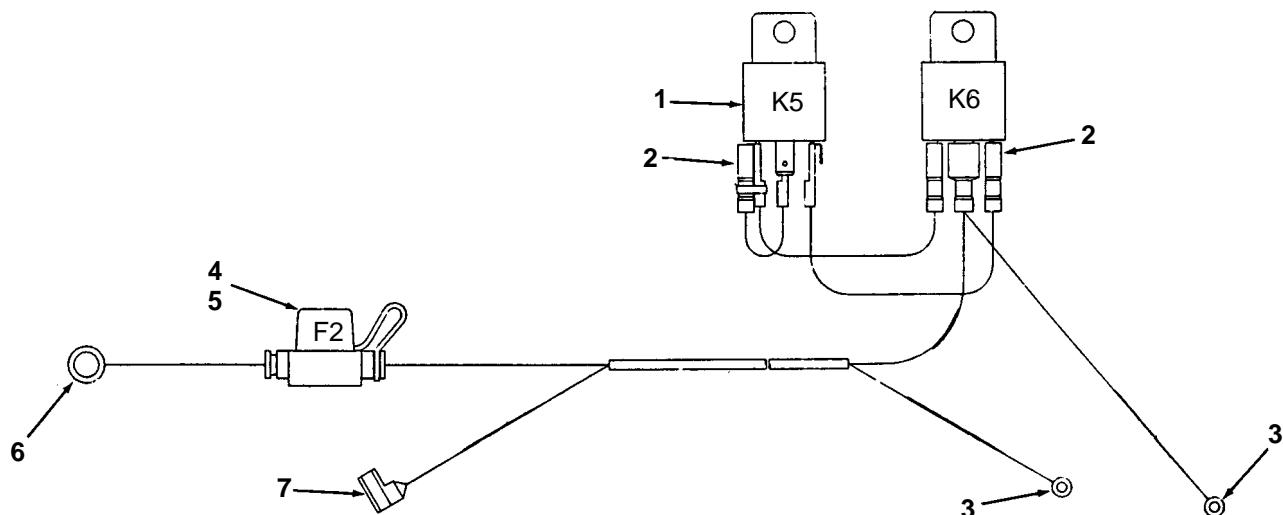
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring	2			Housing (J1)
	338±2041	1	6 Pin Housing		323±1329	1	6 Pin
	338±2086	1	Gasoline		323±1312	1	8 Pin
	338±2320	1	LP		323±1487±03	1	12 Pin
			8 Pin Housing ± Gasoline	3			Socket, Contact
			12 Pin Housing ± Gasoline		323±1486	8	Spec A±F
			Spec C±E		323±1486	10	Spec G
338±2636	1		6 Wire Harness	4		1	Pin, Contact
338±2637	1		5 Wire Harness ± Used		323±1440	6	Use With 6 Pin Housing
			with Battery Charger		323±1302	8	Use With 8 Pin Housing
338±2637±01	1		8 Wire Harness ± Used	5	323±1200	10	Socket, Contact
			without Battery Charger				
338±2775	1		Spec F ± 10 Wire Harness				
			Spec G,H 10 Wire Harness				
338±2775	1		Volt Code FA, FB, FN				
338±2919	1		Volt Code FD, FT				
338±3105	1		Begin Spec J ± 10 Wire Harness				

**Wiring Harness  
Positive Shutoff  
(Without Battery Charger)  
(Begin Spec C)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338±2790		Harness, Positive Shutoff Gasoline (Begin Spec C)	3	332±2431	1	Terminal, Receptacle (.25)
1	323±1486	1	Socket, Contact	4	332±1993	6	Terminal, Receptacle (.25)
2	357±0067	1	Rectifier	5	332±0806	1	Ring (#8)

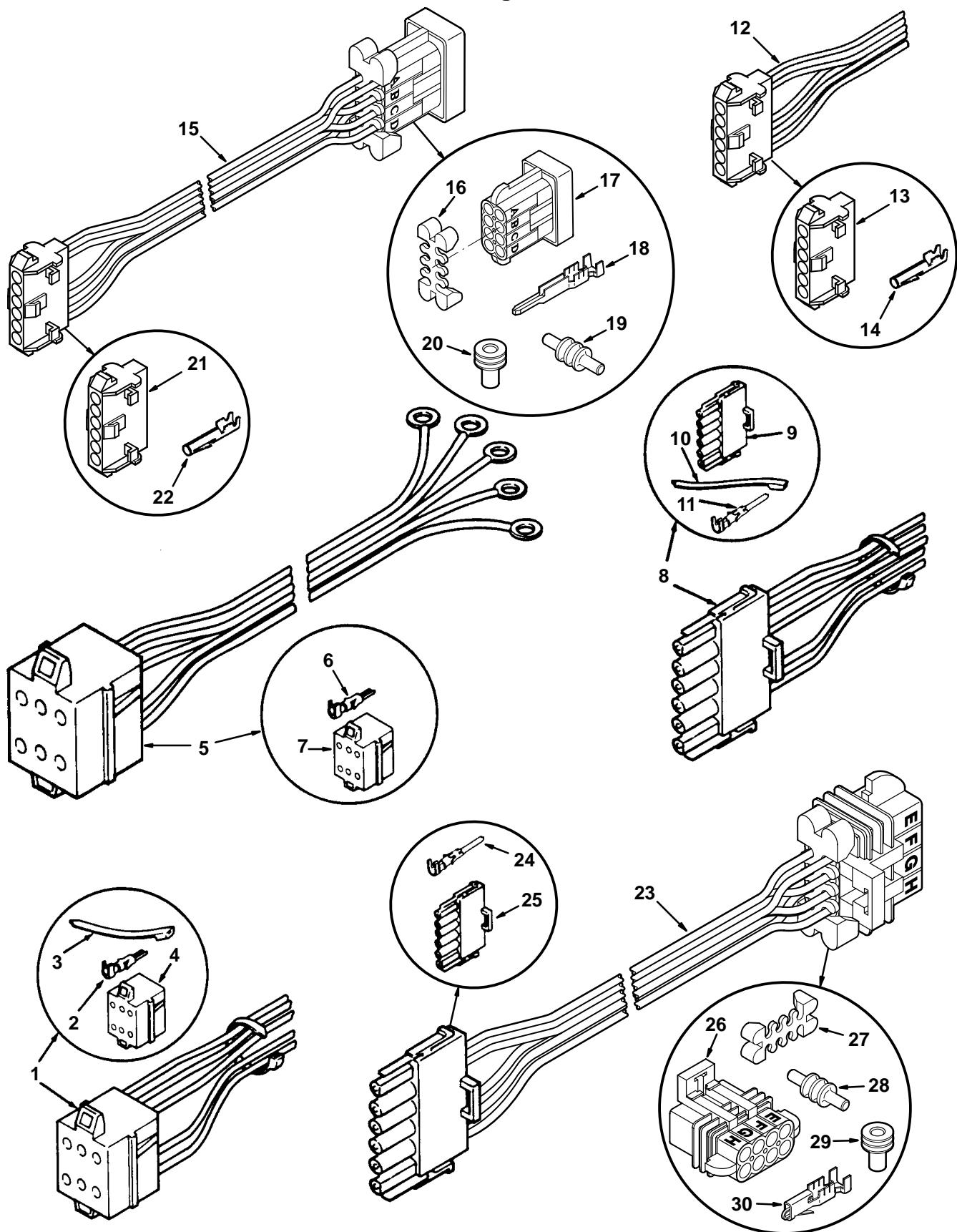
## Wiring Harness Automatic Choke (Begin Spec F)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338±2815	1	Harness, Automatic Choke (Begin Spec F)	8	542±0336	1	Kit, Enable Relay Start (Includes Parts Marked *)
1	307±1886	2	Relay (K5,K6)	9	C100	1	*Instruction Sheet (Not Shown)
2	332±1993	4	Terminal, Faston	10	815±0181	1	*Screw, Hex Head Thread
3	332±0806	2	Terminal, Ring (#8)				Cutting With ET (10±32 x 1/2 <sup>o</sup> )
4	321±0322	1	Holder, Fuse	11	338±3239	1	*Harness Assembly
5	321±0321±06	1	Fuse (10 amp) (F2)				
6	332±1194	1	Terminal, Ring (5/16 <sup>o</sup> )	* ± Parts Included in Enable Relay Start Kit.			
7	332±0682	1	Terminal, Faston				

\* ± Parts Included in Enable Relay Start Kit.

## Remote Wiring Harness



## Remote Wiring Harness

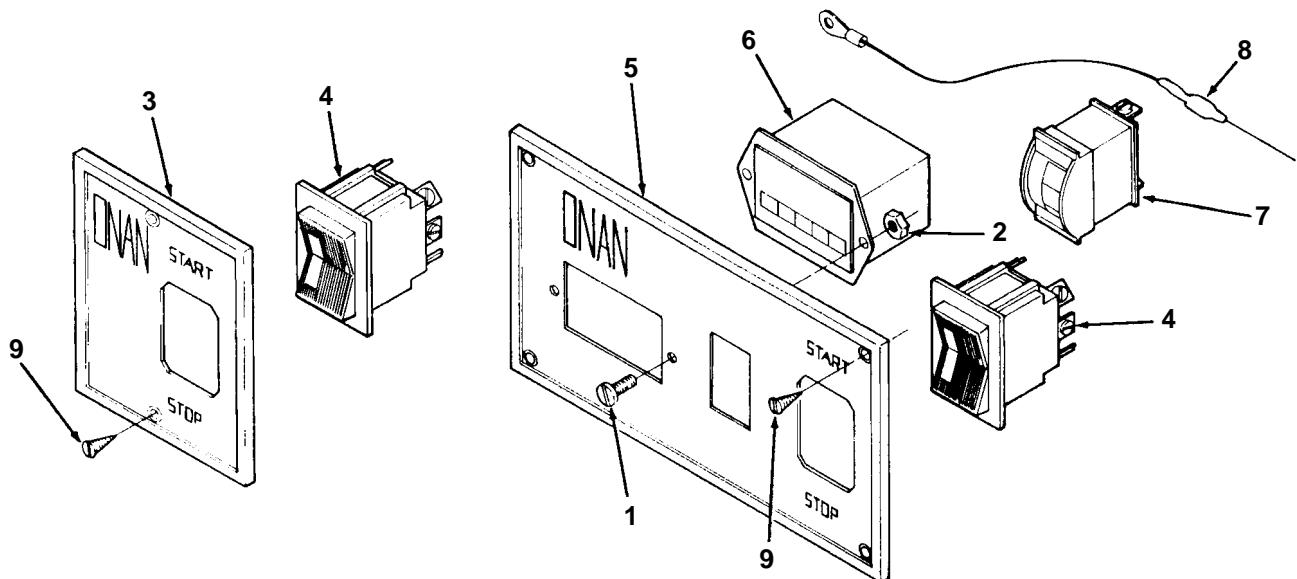
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338±1082	1	Harness, Wiring $\pm 6^\circ$ (Includes Contact Pin, Cable Tie and Connector Housing)	13	323±1342	1	* Housing, Terminal
2	323±0500	5	Pin, Contact	14	323±1200	5	* Socket, Contact
3	332±0942	1	Tie, Cable	15	338±3513	1	Harness, Adaptor (Includes Parts Marked #)
4	323±0400	1	Housing, Connector (6 Place)	16	323±1741		# Lock, Housing (8 Pin)
5			Harness, Wiring (Includes Contact Pin and Connector Housing)	17	323±1744	1	# Connector, Receptacle (8 Pin)
			Ten Feet	18	323±1707	5	# Pin, Terminal
	338±1080	1	Spec A±H	19	323±1712	3	# Plug, Cavity
	338±2260±01	1	Begin Spec J	20	323±1708	5	# Seal, Cable
	338±3489±01	1	Begin Spec M	21	323±1342	1	# Housing, Terminal
			Thirty Feet	22	323±1200	5	# Socket, Contact
	338±1081	1	Spec A±H	23	338±3514	1	Harness, Adaptor (Includes Parts Marked ~)
	338±2260±02	1	Begin Spec J	24	323±1199	5	~ Pin, Contact
	338±3489±02	1	Begin Spec M	25	323±1304	1	~ Housing, Connector (6 Place)
6	323±0500	5	Pin, Contact	26	323±1743	1	~ Connector, Plug (8 Pin)
7	323±0400	1	Housing, Connector (6 Place)	27	323±1741		~ Lock, Housing (8 Pin)
8	338±2046	1	Harness, Wiring $\pm 6^\circ$ (Spec A±J) (Includes Connector Housing, Cable Tie and Contact Pin)	28	323±1712	3	~ Plug, Cavity
9	323±1304	1	Housing, Connector (6 Place)	29	323±1708	5	~ Seal, Cable
10	332±0942	1	Tie, Cable	30	323±1709	5	~ Socket, Terminal
11	323±1199	5	Pin, Contact				
12	338±3572	1	Harness, Adapter (Includes Parts Marked *) (Use With Gasoline and LP Kits 300±4936, 300±4937, & 300±4938)				

\*  $\pm$  Parts Included in 338±3572 Adapter Harness.

#  $\pm$  Parts Included in 338±3513 Adapter Harness.

~  $\pm$  Parts Included in 338±3514 Adapter Harness.

## Remote Start Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815±0385	2	Screw, Round Head Machine (#6±32 x 1/2")	7	302±0888	1	Meter, Battery Condition (M1) Diode
2	860±0006	2	Nut, Hex Head (#6±32)	8	359±0034	1	Screw, Cross Recessed Oval
3	301±3566	1	Panel, Control (Standard)	9			Head Wood (#5±1/2")
4	308±0341	1	Switch, Rocker (S1)	815±0380		2	Standard Control
5	301±3606	1	Panel, Control (Deluxe)	815±0380		4	Deluxe Control
6	302±0885	1	Meter, Time Totalizing (M2)				

**Conversion Enhancement Kit**  
**(Kit Number 146±0586)**  
**(Spec A±E)**

**Note:** This kit is for conversion use on Spec A through E gasoline fueled generator sets. When this kit is installed, this parts list should be reviewed first to determine service replacement parts.

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
146±0663	1	Carburetor ± Complete (See Separate Page for Components)		332±0942	5	Tie, Cable	
				332±3166	1	Marker, Wire (K5±85) (Ignition Coil Lead)	
141±0958	1	Gasket ± Carburetor to Manifold		98±6618±01	1	Label ± Oil Capacity	
140±2308	1	Gasket ± Carburetor Air Horn		862±0015	1	Nut, Hex (5/16±18)	
167±0272	2	Plug, Spark		509±0294	1	O±Ring (Preheater Hose)	
123±1961	1	Cap, Oil Fill		140±2725	1	Adapter, Air Cleaner	
502±0028	1	Plug, Pipe ± Hex Head (1/8") Brass (Intake Manifold)		509±0096	1	Seal, O±Ring (Oil Fill Cap)	
319±1598±01	1	Bracket, Mounting ± Voltage Regulator		815±0590	3	Screw, Machine ± Hex Head (#10±32 x 1/2") (Air Cleaner Adapter to Carburetor)	
321±0323±02	1	Bracket, Fuse Holder		98±6566	1	Label (Fuse)	
338±2815	1	Harness, Wiring ± Power Supply for Carburetor Choke (Includes Parts Marked *)		145±0667	1	Rod, Air Inlet	
307±1886	2	*Relay (K5, K6)		98±6587±01	1	Label (Kit Number)	
321±0322	1	*Holder, Fuse		150±2421	1	Spring, Compression (Linkage)	
321±0321±06	1	*Fuse (10 Amp)		150±2470	2	Washer, Friction (Linkage)	
821±0004	2	Screw, Locking ± Hex Washer Head (#10±32 x 5/16") (Relay Mounting)		518±0606	1	Clip (Linkage)	
332±1993	1	Terminal (1/4") (Ignition Coil Lead)		G151	1	Sheet, Instruction	

\* ± Parts Included in 338±2815 Wiring Harness

## Labels, Paint, Thread Sealant, Gasket Kits, Carburetor Kits, and Accessory Kits

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
98±5313	1	Label, Warning (Battery Cables)	110±3709	3	+Gasket, Valve Box		
98±5142	1	Label, Warning (Fire Hazard)	110±3181	2	+Gasket, Cylinder Head		
98±5755	1	Label, Warning (Hazardous Voltage)	120±0161	1	+Gasket Kit, Oil Pump		
		Label, Model Ident	122±0771	1	+Gasket, Oil Filter Adapter		
		4.5 BGD	154±2495	2	+Gasket, Intake Manifold		
98±5895	1	Spec A±H	154±2746	2	+Gasket, Exhaust Manifold		
98±6936	1	Begin Spec J	160±1368	1	+Gasket, Breaker Box		
		4.0 BGD	509±0008	1	+Seal, Oil (Gov. Shaft)		
98±5891	1	Spec A±H	509±0040	1	+Seal, Oil (Gearcase)		
98±6962	1	Begin Spec J	509±0041	1	+Seal, Oil (Bearing Plate)		
98±5713	1	Label, Warning (Extended Shaft)	509±0289	2	+Seal, Valve Stem		
98±5335	1	Label, Preheat	509±0142	1	+O±Ring, Oil Fill Cap		
98±5913	1	Label, PC Board 3056±01	102±1387	1	+Gasket, Oil Base		
98±5935	1	Label, Model Identification (3.5 BGD)	141±0950	1	+Gasket, Carburetor Mounting (Gasoline)		
98±5777±01	1	Label, Warning (Improper Operation)	141±0281	1	+Gasket, Carburetor Mounting (LP)		
98±6074±02	1	Label, Warning (Operation, Maintenance and Service)	146±0663	1	Kit, Emissions Auto±Choke Carburetor (Includes Parts Marked ~)		
98±5335	1	Label, Air Cleaner (BGD)	146±0630	1	~Carburetor, Emissions and Auto Choke		
98±5815	1	Service Instructions	141±0958	1	~Gasket, Carburetor		
		Label, Oil Fill ± Begin	140±2308	1	~Gasket, Air Horn		
98±6618±01	1	Spec F	542±0336	1	Kit, Enable Interface for Emergency Shutoff		
98±6872		Begin Spec J	542±0331	1	Kit, Exhaust Accessory (Spec B±F) (Includes Parts Marked <)		
98±6618±01	1	Label, Oil Capacity ± Begin Spec F					
98±6566	1	Label, Fuse ± Begin Spec F	G196	1	<Sheet, Instruction		
98±6586±02	2	Label, Battery ± Negative	166±0820	1	<Coil, Ignition		
518±0452	1	Sealant, Thread (50cc Bottle)	166±0747	1	<Clamp, Ignition Coil		
518±0602	1	Loctite, Bottle (250cc)	800±0730	2	<Screw, Hex Head Cap (5/16±18 x 1°)		
525±0304	1	Paint, (Onan Green)	332±2112	1	<Insulator, Terminal		
525±0673±01	1	Paint, (Premium Green)	526±0122	4	<Washer, Flat (5/16)		
525±0673±02	1	Paint, (Premium Green)	862±0015	2	<Nut, Hex (5/16±18)		
525±0305	1	Paint, Enamel Touch±Up Green (Non±Metallic) 13 oz. Pressurized Can	800±0031	2	<Screw, Hex Head Cap (5/16±18 x 1±1/2°)		
168±0189	1	Kit, Gasket ± Carbon Removal (Includes Parts Marked *)	155±2816±02	1	<Strap, Muffler Mounting		
110±3709	3	*Gasket, Valve Box	815±0836	2	<Screw, Hex Washer Head Thread Forming (5/16±18 x 1±1/2°)		
110±3181	2	*Gasket, Cyl Head					
154±2746	2	*Gasket, Exhaust Manifold	155±2814±02	1	<Bar, Muffler Support		
154±2495	2	*Gasket, Intake Manifold	154±2542	1	<Gasket, Exhaust		
509±0289	2	*Seal, Valve Stem	155±1015	1	<Clamp, Muffler		
154±2542	1	*Gasket, Exhaust Manifold	155±2174	1	<Hanger, Exhaust		
168±0187	1	Kit, Gasket ± Engine Complete (Includes Parts Marked +)	154±2540	1	<Tube, Exhaust		
101±0809	1	+Gasket, Rear Bearing Plate	155±1239	1	<Clamp, Muffler		
102±0743	1	+Gasket, Oil Drain	155±1485	1	<Muffler, Spark Arrester		
103±0810	1	+Gasket, Gearcase					

## Labels, Paint, Thread Sealant, Gasket Kits, Carburetor Kits, and Accessory Kits

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	542±0496	1	Kit, Exhaust Accessory (Spec A±D) (Includes Parts Marked &)		155±2814±02	1	=Bar, Muffler Support
	G196	1	&Sheet, Instruction		154±2542	1	=Gasket, Exhaust
	166±0820	1	&Coil, Ignition		155±1015	1	=Clamp, Muffler
	166±0747	1	&Clamp, Ignition Coil		155±2174	1	=Hanger, Exhaust
	420±0581	1	&Bit, Drill (.290° Diameter)		154±2540	1	=Tube, Exhaust
	800±0730	2	&Screw, Hex Head Cap (5/16±18 x 1")		155±2852±02	1	=Clamp, Muffler
	332±2112	1	&Insulator, Terminal		155±2951	1	=Muffler, Spark Arrestor
	526±0122	4	&Washer, Flat (5/16)		541±0465	1	Kit, Single Phase Full Output (Includes Parts Marked >)
	862±0015	2	&Nut, Hex (5/16±18)		315±0738	1	>Transformer
	800±0031	2	&Screw, Hex Head Cap (5/16±18 x 1±1/2")		315±0739±02	1	>Bracket, Transformer
	155±2816±02	1	&Strap, Muffler Mounting		870±1183	2	>Nut, Hex With ET (#6±32)
	815±0836	2	&Screw, Hex Washer Head Thread Forming (5/16±18 x 1±1/2")		320±1649±05	1	>Breaker, Magnetic Circuit
	155±2814±02	1	&Bar, Muffler Support		821±0003		>Screw, Lock Head Whiz Lock (#10±32 x 1")
	154±2542	1	&Gasket, Exhaust		870±0131	1	>Nut, Hex With ET (#10±32)
	155±1015	1	&Clamp, Muffler		C±466	1	>Sheet, Instruction
	155±2174	1	&Hanger, Exhaust		542±0336	1	Kit, Enable Relay Start (Begin Spec J) (Includes Parts Marked ^)
	154±2540	1	&Tube, Exhaust		338±3239	1	^Harness Assembly
	155±2852±02	1	&Clamp, Muffler		815±0181	1	^Screw, Hex Head Thread Cutting With ET (#10±32 x 1/2")
	155±2951	1	&Muffler, Spark Arrestor		C±100	1	^Sheet, Instruction
	542±0494	1	Kit, Exhaust Accessory (Spec J and UP) (Includes Parts Marked =)				
	G196	1	=Sheet, Instruction				
	800±0730	2	=Screw, Hex Head Cap (5/16±18 x 1")				
	332±2112	1	=Insulator, Terminal				
	526±0122	4	=Washer, Flat (5/16)				
	862±0015	2	=Nut, Hex (5/16±18)				
	800±0031	2	=Screw, Hex Head Cap (5/16±18 x 1±1/2")				
	155±2816±02	1	=Strap, Muffler Mounting				
	815±0836	2	=Screw, Hex Washer Head Thread Forming (5/16±18 x 1±1/2")				

\* ± Parts Included in Carbon Removal Gasket Kit.

+ ± Parts Included in Engine Gasket Kit.

~ ± Parts Included in Emissions Auto±Choke Carburetor Kit.

< ± Parts Included in 542±0331 Exhaust Accessory Kit.

& ± Parts Included in 542±0496 Exhaust Accessory Kit.

= ± Parts Included in 542±0494 Exhaust Accessory Kit.

> ± Parts Included in Single Phase Full Output Kit.

^ ± Parts Included in Enable Relay Start Kit.

## Numerical Index

<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>
098±4240, <b>16</b>		103±0822, <b>14</b>		112±0264±05, <b>9</b>		123±1997±50, <b>39</b>	
098±5142, <b>72</b>		104±0032, <b>13</b>		113±0310, <b>9</b>		123±2000, <b>39</b>	
098±5313, <b>51, 72</b>		104±0043, <b>13</b>		113±0310±01, <b>9</b>		123±2001, <b>39</b>	
098±5335, <b>72</b>		104±0170, <b>13</b>		113±0310±02, <b>9</b>		134±4342±01, <b>13</b>	
098±5713, <b>72</b>		104±0575, <b>9</b>		113±0310±03, <b>9</b>		134±4348, <b>49</b>	
098±5755, <b>39, 72</b>		104±0776, <b>9</b>		113±0310±05, <b>9</b>		134±4352±01, <b>49</b>	
098±5777±01, <b>72</b>		104±0779, <b>55</b>		113±0314, <b>9</b>		134±4352±70, <b>49</b>	
098±5815, <b>72</b>		104±1570, <b>55</b>		113±0314±05, <b>9</b>		134±4353±01, <b>49</b>	
098±5891, <b>72</b>		104±1735, <b>13</b>		113±0314±10, <b>9</b>		134±4353±70, <b>49</b>	
098±5895, <b>72</b>		105±0541, <b>12</b>		113±0314±20, <b>9</b>		134±4354±50, <b>49</b>	
098±5913, <b>72</b>		105±0637, <b>12</b>		113±0314±30, <b>9</b>		134±4463±70, <b>49</b>	
098±5935, <b>72</b>		105±0700, <b>12</b>		114±0022, <b>53</b>		134±5050, <b>49</b>	
098±6074±02, <b>72</b>		110±0197, <b>9</b>		114±0023, <b>23</b>		140±1889, <b>25</b>	
098±6566, <b>71, 72</b>		110±0197±10, <b>9</b>		114±0392, <b>9</b>		140±1894, <b>23, 25</b>	
098±6586±02, <b>72</b>		110±1824, <b>9</b>		114±0397, <b>9</b>		140±1919±70, <b>21</b>	
098±6587±01, <b>71</b>		110±1824±02, <b>9</b>		114±0397±10, <b>9</b>		140±2308, <b>16, 19, 23, 25, 71, 72</b>	
098±6618±01, <b>39, 71, 72</b>		110±1824±05, <b>9</b>		114±0397±20, <b>9</b>		140±2379, <b>19, 23, 25</b>	
098±6872, <b>72</b>		110±1824±10, <b>9</b>		114±0397±30, <b>9</b>		140±2482±01, <b>19</b>	
098±6936, <b>72</b>		110±1824±25, <b>9</b>		115±0006, <b>11</b>		140±2725, <b>19, 71</b>	
098±6962, <b>72</b>		110±1879±01, <b>11</b>		120±0140, <b>9, 19</b>		140±2782, <b>19, 23</b>	
101±0405, <b>9</b>		110±3181, <b>9, 72</b>		120±0161, <b>72</b>		140±2883±01, <b>19</b>	
101±0439±01, <b>9</b>		110±3479, <b>9</b>		120±0398, <b>9</b>		140±2884, <b>19</b>	
101±0804, <b>9</b>		110±3480, <b>9</b>		120±0491, <b>9</b>		140±2915±02, <b>21</b>	
101±0804±02, <b>9</b>		110±3485, <b>11</b>		120±1320, <b>9</b>		140±2962, <b>19, 23, 25</b>	
101±0804±10, <b>9</b>		110±3487, <b>11</b>		122±0345, <b>34</b>		140±2976, <b>21</b>	
101±0804±20, <b>9</b>		110±3508, <b>9</b>		122±0360±50, <b>42</b>		140±2977, <b>23, 25</b>	
101±0804±30, <b>9</b>		110±3509, <b>9</b>		122±0502, <b>42</b>		140±3093, <b>19, 23, 25</b>	
101±0805, <b>9</b>		110±3510, <b>11</b>		122±0645, <b>42</b>		141±0077, <b>28</b>	
101±0805±02, <b>9</b>		110±3511, <b>11</b>		122±0771, <b>42, 72</b>		141±0281, <b>72</b>	
101±0805±10, <b>9</b>		110±3515, <b>9</b>		122±0814, <b>42</b>		141±0700, <b>28</b>	
101±0805±20, <b>9</b>		110±3526, <b>9</b>		123±1173, <b>11</b>		141±0701, <b>28</b>	
101±0805±30, <b>9</b>		110±3527, <b>9</b>		123±1174, <b>11</b>		141±0708, <b>28</b>	
101±0809, <b>9, 72</b>		110±3709, <b>11, 72</b>		123±1175, <b>11</b>		141±0710, <b>14</b>	
102±0743, <b>41, 72</b>		112±0229, <b>9</b>		123±1615, <b>21, 23, 25</b>		141±0711, <b>28</b>	
102±1286, <b>41</b>		112±0264, <b>9</b>		123±1616, <b>41</b>		141±0736, <b>28</b>	
102±1387, <b>41, 72</b>		112±0264±01, <b>9</b>		123±1649, <b>11</b>		141±0906, <b>28</b>	
103±0772, <b>14</b>		112±0264±02, <b>9</b>		123±1871, <b>11</b>		141±0919, <b>28</b>	
103±0810, <b>14, 72</b>		112±0264±03, <b>9</b>		123±1961, <b>41, 71</b>			

## Numerical Index

<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>
141±0924, <b>28</b>		148±0903±02, <b>25</b>		150±2426, <b>16</b>		154±2983, <b>45</b>	
141±0932, <b>23, 25, 28</b>		148±1020, <b>23</b>		150±2428, <b>15</b>		154±3003, <b>47</b>	
141±0934, <b>28</b>		149±1353, <b>19</b>		150±2468, <b>15</b>		154±3026, <b>19, 23</b>	
141±0935, <b>28</b>		149±2032±01, <b>25</b>		150±2470, <b>71</b>		154±3069, <b>45, 47</b>	
141±0936, <b>28</b>		149±2038, <b>21</b>		150±2493, <b>15</b>		155±1015, <b>45, 47, 72, 73</b>	
141±0937, <b>28</b>		149±2080, <b>19</b>		150±2589, <b>15</b>		155±1234, <b>47</b>	
141±0938, <b>28</b>		149±2140, <b>19</b>		150±2707±02, <b>16</b>		155±1239, <b>45, 47, 72</b>	
141±0939, <b>28</b>		149±2208, <b>53</b>		150±2723±02, <b>16</b>		155±1256, <b>45, 47, 53</b>	
141±0940, <b>28</b>		149±2226, <b>19</b>		151±0701, <b>16</b>		155±1258, <b>45, 47</b>	
141±0950, <b>19, 72</b>		149±2269, <b>19</b>		151±0752, <b>16</b>		155±1485, <b>45, 47, 72</b>	
141±0958, <b>16, 19, 23, 25, 71, 72</b>		149±2289, <b>19</b>		151±0760, <b>16</b>		155±2025±02, <b>45</b>	
141±0978, <b>28</b>		149±2319, <b>19</b>		153±0554, <b>19</b>		155±2026±02, <b>45</b>	
145±0561, <b>21</b>		149±2331, <b>19</b>		153±0555, <b>19</b>		155±2036, <b>45</b>	
145±0667, <b>21, 71</b>		149±2333, <b>19</b>		153±0557, <b>19</b>		155±2085, <b>45, 47</b>	
145±0704, <b>21</b>		149±2352, <b>19</b>		153±0558, <b>19</b>		155±2086, <b>47</b>	
145±0707, <b>21</b>		149±2354±02, <b>19</b>		153±0561, <b>19</b>		155±2164, <b>45, 47</b>	
146±0449, <b>26, 27</b>		149±2559±02, <b>51</b>		153±0576, <b>19</b>		155±2174, <b>45, 47, 72, 73</b>	
146±0450, <b>26, 27</b>		149±2560, <b>51</b>		153±0577, <b>19</b>		155±2383, <b>53</b>	
146±0453, <b>26, 27</b>		150±0075, <b>12</b>		153±0578, <b>19</b>		155±2429±03, <b>45</b>	
146±0455, <b>19, 26</b>		150±0078, <b>12</b>		153±0579, <b>19</b>		155±2449, <b>45</b>	
146±0457, <b>26, 27</b>		150±0096, <b>15</b>		154±2447, <b>19, 23, 25</b>		155±2540, <b>47, 72, 73</b>	
146±0586, <b>26, 27, 71</b>		150±0939, <b>15</b>		154±2495, <b>19, 23, 25, 72</b>			
146±0588, <b>27</b>		150±1187, <b>14</b>		154±2537, <b>45</b>		155±2555±51, <b>49</b>	
146±0589, <b>27</b>		150±1519, <b>12</b>		154±2538, <b>45</b>		155±2579, <b>49</b>	
146±0590, <b>27</b>		150±1520, <b>12</b>		154±2539, <b>45, 47, 53</b>		155±2588, <b>45</b>	
146±0592, <b>27</b>		150±1612, <b>15</b>		154±2540, <b>45</b>		155±2589, <b>45</b>	
146±0630, <b>72</b>		150±1957, <b>15</b>		154±2542, <b>45, 47, 53, 72, 73</b>		155±2814±02, <b>47, 72, 73</b>	
146±0631, <b>16</b>		150±1958±02, <b>15</b>		154±2551, <b>45</b>		155±2816±02, <b>47, 72, 73</b>	
146±0663, <b>19, 27, 71, 72</b>		150±1998, <b>14</b>		154±2627, <b>45</b>		155±2852±02, <b>73</b>	
146±0723, <b>25, 28</b>		150±2002±04, <b>14</b>		154±2662, <b>45</b>		155±2951, <b>73</b>	
146±0727, <b>23, 28</b>		150±2079, <b>15</b>		154±2663, <b>45</b>		155±2986±02, <b>45</b>	
148±0311, <b>23</b>		150±2294, <b>15</b>		154±2683, <b>45</b>		155±2989±02, <b>45</b>	
148±0852, <b>23</b>		150±2295, <b>15</b>		154±2718, <b>45</b>		155±2993±02, <b>45</b>	
148±0890, <b>25</b>		150±2298±01, <b>15</b>		154±2746, <b>45, 72</b>		155±2994±02, <b>45</b>	
148±0893, <b>25</b>		150±2421, <b>15, 71</b>		154±2854±01, <b>45</b>		155±3259, <b>47</b>	
148±0896, <b>25</b>		150±2424, <b>16</b>		154±2980, <b>45</b>		159±0020, <b>53</b>	
148±0897, <b>25</b>		150±2425, <b>16</b>					
148±0898, <b>25</b>							

## Numerical Index

<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>
159±1193, <b>53</b>		191±1781, <b>35</b>		201±3514±03, <b>55</b>		231±0288±01, <b>55</b>	
159±1199, <b>53</b>		191±1784, <b>35</b>		201±3514±04, <b>55</b>		231±0381±01, <b>55</b>	
160±1151, <b>30</b>		191±1785, <b>35</b>		201±3525±01, <b>55</b>		231±0381±03, <b>55</b>	
160±1183, <b>30</b>		191±1786, <b>35</b>		201±3525±02, <b>55</b>		232±2955±02, <b>55</b>	
160±1314, <b>30</b>		191±1817, <b>35</b>		201±3525±03, <b>55</b>		232±3265±02, <b>59</b>	
160±1316, <b>30</b>		191±1818, <b>35</b>		201±3525±04, <b>55</b>		232±3836±02, <b>63</b>	
160±1317, <b>30</b>		191±1819, <b>35</b>		204±0134, <b>55</b>		232±3933±02, <b>63</b>	
160±1325, <b>29, 30</b>		191±1820, <b>35</b>		205±0165, <b>55</b>		300±3763±03, <b>59</b>	
160±1345±01, <b>31</b>		191±1821, <b>35</b>		205±0221, <b>55</b>		300±3763±04, <b>59</b>	
160±1368, <b>30, 31, 72</b>		191±1822, <b>35</b>		205±0235, <b>13</b>		300±3951, <b>59</b>	
166±0747, <b>29, 31, 72, 73</b>		191±1931, <b>38</b>		205±0241, <b>55</b>		300±4442, <b>57</b>	
166±0761, <b>31</b>		191±1947, <b>38</b>		212±1276±03, <b>57</b>		300±4451, <b>57</b>	
166±0770, <b>31</b>		191±1949±09, <b>34, 38</b>		212±1284, <b>57</b>		300±4452, <b>57</b>	
166±0771, <b>29, 31</b>		191±1951, <b>38</b>		212±1285, <b>57</b>		300±4453, <b>57</b>	
166±0772, <b>29</b>		191±1953, <b>38</b>		212±1286, <b>57</b>		300±4505, <b>63</b>	
166±0789±01, <b>31</b>		191±1954, <b>38</b>		214±0103, <b>57</b>		300±4505±01, <b>63</b>	
166±0793, <b>31</b>		191±1955, <b>38</b>		220±4133, <b>55</b>		300±4936, <b>69</b>	
166±0820, <b>31, 72, 73</b>		191±1956, <b>38</b>		220±4133±02, <b>55</b>		300±4937, <b>69</b>	
166±0821, <b>31</b>		191±2122, <b>34, 37</b>		220±4135±03, <b>55</b>		300±4938, <b>69</b>	
166±0821±01, <b>31</b>		191±2129, <b>35</b>		220±4135±04, <b>55</b>		300±4946, <b>63</b>	
166±0842, <b>31</b>		191±2132, <b>36</b>		220±4135±07, <b>55</b>		300±5002±01, <b>63</b>	
167±0272, <b>29, 31, 71</b>		191±2139, <b>64</b>		220±4135±08, <b>55</b>		301±3566, <b>70</b>	
167±1602, <b>29, 31</b>		191±2158, <b>36</b>		220±4193±01, <b>55</b>		301±3606, <b>70</b>	
167±1615±01, <b>29, 31</b>		191±2186, <b>36</b>		220±4194±02, <b>55</b>		302±0885, <b>70</b>	
167±1615±06, <b>31</b>		191±2187, <b>36</b>		220±4194±03, <b>55</b>		302±0888, <b>70</b>	
168±0187, <b>72</b>		191±2198±02, <b>37</b>		220±4194±05, <b>55</b>		302±2002, <b>63</b>	
168±0189, <b>72</b>		191±2199±01, <b>38</b>		220±4194±06, <b>55</b>		302±2003, <b>63</b>	
191±1034, <b>37</b>		191±2199±02, <b>38</b>		220±4194±09, <b>55</b>		303±0275, <b>63</b>	
191±1035, <b>37</b>		201±3388±03, <b>55</b>		220±4438±02, <b>55</b>		303±0276, <b>59, 63</b>	
191±1045, <b>37</b>		201±3388±04, <b>55</b>		220±4439, <b>55</b>		304±0796, <b>32</b>	
191±1046, <b>37</b>		201±3388±05, <b>55</b>		220±4439±01, <b>55</b>		304±0798, <b>32</b>	
191±1047, <b>37</b>		201±3388±06, <b>55</b>		220±4532±01, <b>55</b>		305±0784, <b>32</b>	
191±1156, <b>37</b>		201±3509±01, <b>55</b>		226±3457, <b>34</b>		305±0809±03, <b>61</b>	
191±1359, <b>37</b>		201±3509±02, <b>55</b>		226±3504, <b>59</b>		305±0809±05, <b>61</b>	
191±1456±05, <b>14</b>		201±3509±03, <b>55</b>		226±3504±01, <b>59</b>		305±0830±01, <b>61</b>	
191±1630, <b>34, 35</b>		201±3509±04, <b>55</b>		226±3852±01, <b>59</b>		305±0875±04, <b>33</b>	
191±1766, <b>38</b>		201±3514±01, <b>55</b>		226±3852±02, <b>59</b>		305±0879±02, <b>33</b>	
191±1776, <b>35</b>		201±3514±02, <b>55</b>		226±3852±03, <b>59</b>		305±0881, <b>33, 61</b>	

## Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
305±0883, <b>33, 61</b>		319±1237±08, <b>59</b>		323±1200, <b>61, 65, 69</b>		332±0819, <b>55</b>	
305±0911, <b>41</b>		319±1238, <b>59</b>		323±1216, <b>64</b>		332±0941, <b>55, 59</b>	
305±0922, <b>41</b>		319±1238±10, <b>59</b>		323±1298, <b>55</b>		332±0942, <b>34, 69, 71</b>	
305±0923, <b>63</b>		319±1238±13, <b>59</b>		323±1302, <b>32, 59, 65</b>		332±1194, <b>67</b>	
305±0945±02, <b>33</b>		319±1598±01, <b>71</b>		323±1304, <b>69</b>		332±1554, <b>53</b>	
305±0979, <b>63</b>		319±1598±02, <b>32</b>		323±1312, <b>65</b>		332±1815, <b>61</b>	
305±0980, <b>63</b>		319±2272, <b>63</b>		323±1314, <b>61</b>		332±1993, <b>66, 67, 71</b>	
307±1881, <b>23</b>		319±2359, <b>63</b>		323±1329, <b>65</b>		332±2112, <b>47, 59, 72, 73</b>	
307±1886, <b>32, 63, 67, 71</b>		319±2360, <b>63</b>		323±1342, <b>69</b>		332±2431, <b>66</b>	
307±2478, <b>25</b>		320±0540, <b>53</b>		323±1371, <b>61</b>		332±2859±01, <b>61</b>	
307±2501, <b>25</b>		320±0541, <b>53</b>		323±1440, <b>65</b>		332±2859±02, <b>61</b>	
307±2559±01, <b>23</b>		320±0543, <b>53</b>		323±1486, <b>32, 65, 66</b>		332±2868, <b>61</b>	
307±2570, <b>59</b>		320±1320, <b>59</b>		323±1487±03, <b>65</b>		332±3075, <b>59</b>	
307±2767, <b>63</b>		320±1321, <b>59</b>		323±1491, <b>61, 64</b>		332±3166, <b>71</b>	
307±2833±03, <b>63</b>		320±1323, <b>59</b>		323±1492, <b>63, 64</b>		332±3198, <b>31</b>	
308±0341, <b>70</b>		320±1548±04, <b>59</b>		323±1501, <b>64</b>		332±3213, <b>39</b>	
308±0479, <b>53</b>		320±1548±05, <b>59</b>		323±1505, <b>64</b>		332±3328, <b>57</b>	
308±0949, <b>61</b>		320±1649±02, <b>59</b>		323±1563, <b>63</b>		332±3359, <b>34, 57</b>	
308±0995, <b>61</b>		320±1649±03, <b>59</b>		323±1582, <b>61</b>		332±3582, <b>63</b>	
308±1050, <b>63</b>		320±1649±05, <b>59, 73</b>		323±1583, <b>61</b>		336±2378, <b>30</b>	
309±0322, <b>42</b>		320±1658, <b>32</b>		323±1591, <b>61, 63, 64</b>		336±9679, <b>25</b>	
312±0256, <b>32, 55</b>		320±1694, <b>59</b>		323±1623, <b>63, 64</b>		337±2311, <b>41</b>	
315±0684, <b>59</b>		321±0287, <b>61</b>		323±1624, <b>63, 64</b>		337±2808, <b>55</b>	
315±0728±03, <b>51</b>		321±0295, <b>61</b>		323±1625, <b>63</b>		338±1080, <b>69</b>	
315±0738, <b>59, 73</b>		321±0298, <b>59</b>		323±1707, <b>63, 69</b>		338±1081, <b>69</b>	
315±0739±02, <b>59, 63, 73</b>		321±0321±04, <b>63</b>		323±1708, <b>63, 69</b>		338±1082, <b>69</b>	
315±0754, <b>33, 41</b>		321±0321±06, <b>32, 63, 67, 71</b>		323±1709, <b>69</b>		338±2041, <b>65</b>	
315±0758, <b>63</b>		321±0322, <b>63, 67, 71</b>		323±1712, <b>63, 69</b>		338±2046, <b>69</b>	
315±0792±03, <b>33</b>		321±0322±02, <b>32</b>		323±1741, <b>63, 69</b>		338±2058, <b>59</b>	
319±0310±02, <b>32</b>		321±0322±03, <b>32</b>		323±1743, <b>69</b>		338±2076, <b>61</b>	
319±0476, <b>53</b>		321±0323±02, <b>59, 63, 71</b>		323±1744, <b>63, 69</b>		338±2083, <b>61</b>	
319±0477, <b>53</b>		323±0400, <b>69</b>		331±0244, <b>53</b>		338±2083±01, <b>61</b>	
319±0478, <b>53</b>		323±0500, <b>69</b>		331±0536, <b>55</b>		338±2083±02, <b>61</b>	
319±0568, <b>59</b>		323±1104, <b>53</b>		332±0142, <b>53</b>		338±2083±03, <b>61</b>	
319±0668, <b>63</b>		323±1107, <b>53</b>		332±0556, <b>19</b>		338±2086, <b>65</b>	
319±1237, <b>59</b>		323±1111, <b>53</b>		332±0682, <b>67</b>		338±2260±01, <b>69</b>	
319±1237±03, <b>59</b>		323±1199, <b>61, 69</b>		332±0806, <b>66, 67</b>		338±2260±02, <b>69</b>	

## Numerical Index

<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>
338±2318±01, 32		370±4027, 45		416±0945, 53		503±1365, 25	
338±2318±02, 32		370±4052, 19		416±0950, 53		503±1551, 43	
338±2320, 65		370±4086, 33		416±0951±01, 53		504±0150, 41	
338±2332, 59, 63		402±0547, 41		416±0951±02, 53		505±0051, 23	
338±2360, 59, 63		402±0549, 41		416±0989±02, 32		505±0057, 23	
338±2361, 19		402±0597, 41		418±0014, 47		505±0266, 41	
338±2386, 53		402±0602, 41		501±0497, 25		505±0274, 25	
338±2572, 59, 63		403±1477, 53		501±0525, 25		505±0332, 23	
338±2636, 65		403±1523±01, 49		502±0002, 19		505±1426, 23	
338±2637, 65		403±2218±01, 41		502±0003, 19		508±0071, 51	
338±2637±01, 65		403±2218±02, 41		502±0020, 19		508±0272, 55	
338±2643±01, 32		403±2725, 51		502±0028, 19, 71		509±0008, 14, 72	
338±2643±02, 32		403±2745±02, 51		502±0054, 25		509±0040, 14, 72	
338±2775, 65		403±2786±02, 51		502±0065, 51		509±0041, 9, 72	
338±2776±01, 32		403±2864, 53		502±0238, 23		509±0096, 41, 71	
338±2776±02, 32		403±2865, 53		502±0313, 19		509±0142, 72	
338±2790, 66		403±2866, 53		502±0395, 23		509±0196, 57	
338±2815, 67, 71		403±2867, 53		502±0838, 25		509±0269, 39	
338±2816, 32		403±2868, 53		502±0927±01, 25		509±0289, 11, 72	
338±2820, 32		403±2870, 53		502±0928±01, 25		509±0294, 71	
338±2917, 32		403±2871, 53		502±0929±01, 25		509±0313, 21, 63	
338±2918, 61		403±2872, 53		502±0932±01, 25		510±0013, 14	
338±2919, 65		403±4109±01, 51		502±0933±01, 25		510±0014, 14	
338±3105, 65		405±3955, 51		502±0935, 25		510±0015, 12	
338±3109, 63		405±3974, 51		502±0965±01, 25		510±0185, 55	
338±3143, 63		405±3986, 51		502±1026, 43		515±0001, 12, 13	
338±3145, 64		405±3988, 51		502±1105, 19		515±0142, 55	
338±3239, 67, 73		405±3993, 51		502±1108, 19		515±0263, 13	
338±3433, 51		405±3996±02, 51		503±0183, 21, 23, 25		516±0069, 59	
338±3489±01, 69		405±3999±02, 51		503±0301, 53		516±0072, 9	
338±3489±02, 69		405±4000, 51		503±0707, 53		516±0130, 14	
338±3513, 69		405±4037±02, 51		503±0813, 19		516±0141, 9	
338±3572, 69		405±5754, 51		503±1016, 23		517±0048±01, 9	
338±3624, 63		406±0655, 51		503±1048, 23		517±0067, 9	
338±3673, 63		406±0656±02, 51		503±1133, 19, 23, 25		517±0133, 61, 63	
338±3699, 16		406±0657±02, 51		503±1190, 25		517±0223, 19	
357±0067, 19, 32, 66		410±0236, 53		503±1252, 19		517±0260, 43	
359±0034, 70		410±1025, 53		503±1351, 21		517±0283, 49	

## Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
517±0319, <b>55</b>		526±0356, <b>13</b>		800±0031, <b>47, 53, 72, 73</b>		815±0480, <b>53</b>	
517±0320, <b>19</b>		526±0402, <b>9</b>		800±0032±01, <b>14</b>		815±0499, <b>45</b>	
518±0006, <b>15</b>		539±1001, <b>51</b>		800±0033, <b>19, 23, 25</b>		815±0550, <b>59</b>	
518±0014, <b>13</b>		541±0456, <b>39</b>		800±0036, <b>45</b>		815±0587, <b>19, 23, 25</b>	
518±0130, <b>53</b>		541±0465, <b>73</b>		800±0048, <b>41, 53</b>		815±0590, <b>19, 23, 25, 71</b>	
518±0311, <b>9</b>		541±0532, <b>25</b>		800±0051, <b>9, 53</b>		815±0591, <b>19, 23</b>	
518±0350, <b>23</b>		541±0543, <b>63</b>		800±0052, <b>34, 57</b>		815±0592, <b>19</b>	
518±0387, <b>19</b>		542±0265, <b>47</b>		800±0054, <b>53</b>		815±0598, <b>41</b>	
518±0450, <b>19</b>		542±0327, <b>47</b>		800±0056, <b>53</b>		815±0610, <b>64</b>	
518±0452, <b>72</b>		542±0331, <b>45, 72</b>		800±0058, <b>41</b>		815±0646, <b>55</b>	
518±0459, <b>21</b>		542±0334, <b>45</b>		800±0312, <b>34</b>		815±0647, <b>25</b>	
518±0460, <b>55</b>		542±0336, <b>67, 72, 73</b>		800±0517, <b>51</b>		815±0650, <b>31</b>	
518±0466, <b>19</b>		542±0337, <b>47</b>		800±0545, <b>14</b>		815±0659, <b>14</b>	
518±0582, <b>15</b>		542±0341, <b>45</b>		800±0571, <b>9</b>		815±0661, <b>32, 59</b>	
518±0602, <b>72</b>		542±0343, <b>45</b>		800±0575, <b>9, 57</b>		815±0662, <b>59</b>	
518±0606, <b>15, 71</b>		542±0351, <b>47</b>		800±0589, <b>51</b>		815±0664, <b>25</b>	
520±0961±02, <b>55</b>		542±0469, <b>47</b>		800±0600, <b>57</b>		815±0691±01, <b>33, 61</b>	
525±0304, <b>72</b>		542±0470, <b>47</b>		800±0730, <b>45, 47, 53, 72, 73</b>		815±0692±01, <b>25</b>	
525±0305, <b>72</b>		542±0482, <b>47</b>		801±0049, <b>11</b>		815±0692±02, <b>19, 25, 59</b>	
525±0673±01, <b>72</b>		542±0494, <b>45, 73</b>		802±0034, <b>30</b>		815±0712, <b>32</b>	
525±0673±02, <b>72</b>		542±0496, <b>45, 73</b>		802±1038, <b>55</b>		815±0723, <b>51</b>	
526±0002, <b>19</b>		542±0498, <b>45</b>		803±0071, <b>9</b>		815±0759, <b>49</b>	
526±0003, <b>25</b>		612±6717, <b>63</b>		813±0114, <b>33</b>		815±0770, <b>31, 32, 55</b>	
526±0008, <b>33</b>		740±1004, <b>31, 45</b>		815±0046, <b>14</b>		815±0772, <b>19</b>	
526±0014, <b>41</b>		740±1006, <b>23, 25, 45</b>		815±0176, <b>25</b>		815±0782, <b>19, 25</b>	
526±0017, <b>13</b>		750±1006, <b>38</b>		815±0181, <b>16, 67, 73</b>		815±0783±01, <b>16</b>	
526±0018, <b>11, 45, 64</b>		800±0003, <b>53</b>		815±0236, <b>41</b>		815±0783±02, <b>16</b>	
526±0021, <b>19, 23, 25</b>		800±0004, <b>31, 41, 45, 47, 53</b>		815±0261, <b>14, 16, 25, 29, 39, 49, 63</b>		815±0788, <b>55, 63</b>	
526±0032, <b>55</b>		800±0005, <b>45, 51</b>		815±0290, <b>19, 31, 33, 45, 51</b>		815±0793±07, <b>32</b>	
526±0063, <b>11</b>		800±0007, <b>9, 16, 45</b>		815±0340, <b>42, 55</b>		815±0836, <b>47, 72, 73</b>	
526±0065, <b>14, 42</b>		800±0009, <b>53</b>		815±0359, <b>55</b>		815±0867, <b>63</b>	
526±0066, <b>9</b>		800±0010, <b>11</b>		815±0380, <b>70</b>		815±0870, <b>63</b>	
526±0081, <b>53</b>		800±0017, <b>19, 23, 25</b>		815±0384, <b>63</b>		815±0908, <b>57</b>	
526±0122, <b>9, 47, 51, 72, 73</b>		800±0025, <b>45</b>		815±0385, <b>59, 70</b>		818±0237±01, <b>16</b>	
526±0130, <b>45, 47, 53</b>		800±0026, <b>45, 51, 53</b>		815±0389, <b>53</b>		820±1077, <b>14</b>	
526±0251, <b>41</b>		800±0028, <b>23, 42, 51</b>		815±0439, <b>45</b>		821±0002, <b>63</b>	
526±0324, <b>41</b>		800±0029, <b>51</b>				821±0003, <b>59, 73</b>	
526±0325, <b>41</b>		800±0030, <b>45</b>				821±0004, <b>32, 53, 71</b>	

## Numerical Index

<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>	<b>Part No.</b>	<b>Page</b>
821±0009, <b>49</b>		850±0040, <b>9, 23, 25, 34, 45, 47, 53</b>		856±0010, <b>41, 53, 57</b>		870±0203, <b>55</b>	
821±0010, <b>41, 49</b>		850±0045, <b>19, 45, 47, 53</b>		860±0006, <b>70</b>		870±0212, <b>19, 45, 51</b>	
821±0012, <b>32</b>		850±0050, <b>9, 34, 53, 57</b>		862±0001, <b>23, 34</b>		870±0221, <b>25</b>	
821±0014, <b>49</b>		850±0055, <b>55</b>		862±0003, <b>34, 53, 55</b>		870±0257, <b>23, 53</b>	
821±0015, <b>55</b>		850±0114±07, <b>34, 57</b>		862±0015, <b>19, 23, 25, 47, 53, 71, 72, 73</b>		870±0281, <b>53</b>	
821±0016, <b>41, 45</b>		850±2005, <b>29</b>		862±0041, <b>34, 55</b>		870±0328, <b>14, 31</b>	
821±0018, <b>45, 64</b>		851±0031, <b>14</b>		870±0048, <b>45</b>		870±0415, <b>49</b>	
821±0029, <b>45</b>		853±0013, <b>41</b>		870±0065, <b>16, 63</b>		870±0421, <b>19</b>	
821±0031, <b>41, 57</b>		856±0003, <b>32</b>		870±0131, <b>15, 53, 59, 61, 73</b>		870±0533, <b>9</b>	
850±0030, <b>32</b>		856±0006, <b>19, 33, 53, 64</b>		870±0183, <b>59</b>		870±1183, <b>59, 63, 73</b>	
850±0038, <b>30</b>		856±0008, <b>41, 53, 55</b>					